

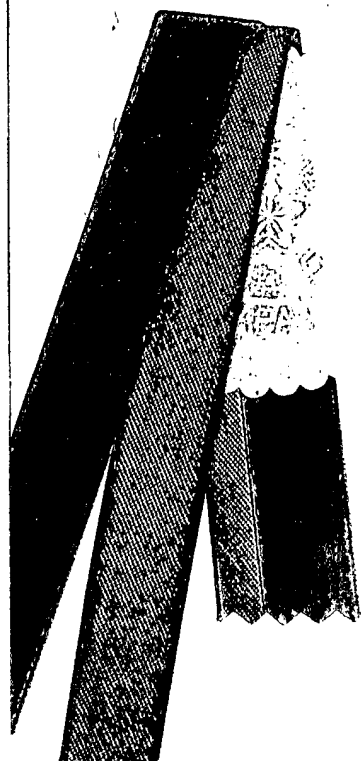
分 冊

Separate Volume

出願番号 特願2003-102207

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分冊番号 2/9



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出証番号 出証特2004-30596461

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Leu Arg Phe Ala Pro Asn Gln Thr Arg Glu Leu Glu Glu Arg Ile Met
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Glu Leu His Lys Thr Tyr Arg Gly Met Thr Pro Gly Glu Ala Glu Ile
225 230 235 240
His Phe Leu Glu Asn Ala Lys Lys Leu Ser Met Tyr Gly Val Asp Leu
245 250 255
His His Ala Lys Asp Ser Glu Gly Ile Asp Ile Met Leu Gly Val Cys
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Ala Asn Gly Leu Leu Ile Tyr Arg Asp Arg Leu Arg Ile Asn Arg Phe
275 280 285
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Ile Lys Ile Arg Pro Gly Glu Tyr Glu Gln Phe Glu Ser Thr Ile Gly
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Phe Lys Leu Pro Asn His Arg Ser Ala Lys Arg Leu Trp Lys Val Cys
325 330 335
Ile Glu His His Thr Phe Phe Arg Leu Val Ser Pro Glu Pro Pro Pro
340 345 350
Lys Gly Phe Leu Val Met Gly Ser Lys Phe Arg Tyr Ser Gly Arg Thr
355 360 365
Gln Ala Gln Thr Arg Gln Ala Ser Ala Leu Ile Asp Arg Pro Ala Pro
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Phe Phe Glu Arg Ser Ser Ser Lys Arg Tyr Thr Met Ser Arg Ser Leu
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Asp Gly Ala Glu Phe Ser Arg Pro Ala Ser Val Ser Glu Asn His Asp

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Gln Arg Ser Glu Ala Glu Glu Gly Glu Val Arg Thr Pro Thr Lys Ile		
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Lys Glu Leu Lys Phe Leu Asp Lys Pro Glu Asp Val Leu Leu Lys His		
450	455	460
Gln Ala Ser Ile Asn Glu Leu Lys Arg Thr Leu Lys Glu Pro Asn Ser		
465	470	475
Lys Leu Ile His Arg Asp Arg Asp Trp Glu Arg Glu Arg Arg Leu Pro		
485	490	495
Ser Ser Pro Ala Ser Pro Ser Pro Lys Gly Thr Pro Glu Lys Ala Asn		
500	505	510
Glu Pro Val Lys Thr Glu Thr Met Thr Val Ser Ser Leu Ala Ile Arg		
515	520	525
Lys Lys Ile Glu Pro Glu Ala Val Leu Gln Thr Arg Val Ser Ala Met		
530	535	540
Asp Asn Thr Gln Gln Val Asp Gly Ser Ala Ser Val Gly Arg Glu Phe		
545	550	555
Ile Ala Thr Thr Pro Ser Ile Thr Thr Glu Thr Ile Ser Thr Thr Met		
565	570	575
Glu Asn Ser Leu Lys Ser Gly Lys Gly Ala Ala Ala Met Ile Pro Gly		
580	585	590
Pro Gln Thr Val Ala Thr Glu Ile Arg Ser Leu Ser Pro Ile Ile Gly		
595	600	605
Lys Asp Val Leu Thr Ser Thr Tyr Gly Ala Thr Ala Glu Thr Leu Ser		
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Thr Ser Thr Thr Thr His Val Thr Lys Thr Val Lys Gly Gly Phe Ser		
625	630	635
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Glu Thr Arg Ile Glu Lys Arg Ile Ile Ile Thr Gly Asp Glu Asp Val

645

650

655

Asp Gln Asp Gln Ala Leu Ala Leu Ala Ile Lys Glu Ala Lys Leu Gln

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His Pro Asp Met Leu Val Thr Lys Ala Val Val Tyr Arg Glu Thr Asp

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Pro Ser Pro Glu Glu Arg Asp Lys Lys Pro Gln Glu Ser

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700

<210> 2245

<211> 1040

<212> PRT

<213> Homo sapiens

<400> 2245

Met Ser Leu Ser Thr Phe Ala Gln Met Thr Gln Leu Met Lys Ala Ala

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Lys Ser Gly Thr Lys Asp Gly Leu Glu Lys Thr Arg Met Ala Val Met

20

25

30

Arg Lys Val Ser Phe Leu His Arg Lys Asp Val Leu Gly Asp Ser Glu

35

40

45

Glu Glu Asp Met Gly Leu Leu Glu Val Ser Val Ser Asp Ile Lys Pro

50

55

60

Pro Ala Pro Glu Leu Gly Pro Met Pro Glu Gly Leu Ser Pro Gln Gln

65

70

75

80

Val Val Arg Arg His Ile Leu Gly Ser Ile Val Gln Ser Glu Gly Ser

85

90

95

Tyr Val Glu Ser Leu Lys Arg Ile Leu Gln Asp Tyr Arg Asn Pro Leu

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Phe Phe Arg Val Lys Glu Ile Leu His Cys His Ser Met Phe Gln Ile			
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Ala Leu Ser Ser Arg Val Ala Glu Trp Asp Ser Thr Glu Lys Ile Gly			
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Asp Leu Phe Val Ala Ser Phe Ser Lys Ser Met Val Leu Asp Val Tyr			
165	170	175	
Ser Asp Tyr Val Asn Asn Phe Thr Ser Ala Met Pro Ile Ile Lys Lys			
180	185	190	
Ala Cys Leu Thr Lys Pro Ala Phe Leu Glu Phe Leu Lys Arg Arg Gln			
195	200	205	
Val Cys Ser Pro Asp Arg Val Thr Leu Tyr Gly Leu Met Val Lys Pro			
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Ile Gln Arg Phe Pro Gln Phe Ile Leu Leu Leu Gln Asp Met Leu Lys			
225	230	235	240
Asn Thr Pro Arg Gly His Pro Asp Arg Leu Ser Leu Gln Leu Ala Leu			
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Thr Glu Leu Glu Thr Leu Ala Glu Lys Leu Asn Glu Gln Lys Arg Leu			
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Ala Asp Gln Val Ala Glu Ile Gln Gln Leu Thr Lys Ser Val Ser Asp			
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Arg Ser Ser Leu Asn Lys Leu Leu Thr Ser Gly Gln Arg Gln Leu Leu			
290	295	300	
Leu Cys Glu Thr Leu Thr Glu Thr Val Tyr Gly Asp Arg Gly Gln Leu			
305	310	315	320
Ile Lys Ser Lys Glu Arg Arg Val Phe Leu Leu Asn Asp Met Leu Val			
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Pro Leu Gly Pro Lys Tyr Val Val Lys Trp Asn Thr Ala Leu Pro Gln
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Asn Val Leu Ile Gln His Ser Gly Ala Lys Lys Ala Ser Ala Ser Gly
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Leu Gln Asp Leu Gln Lys Asp Leu Ala Val Val Glu Gln Ile Thr Leu
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Leu Ile Ser Thr Leu His Gly Thr Tyr Gln Asn Leu Asn Met Thr Val
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Ala Gln Asp Trp Cys Leu Ala Leu Gln Arg Leu Met Arg Val Lys Glu
450 455 460
Glu Glu Ile His Ser Ala Asn Lys Cys Arg Leu Arg Leu Leu Leu Pro
465 470 475 480
Gly Lys Pro Asp Lys Ser Gly Arg Pro Ile Ser Phe Met Val Val Phe
485 490 495
Ile Thr Pro Asn Pro Leu Ser Lys Ile Ser Trp Val Asn Arg Leu His
500 505 510
Leu Ala Lys Ile Gly Leu Arg Glu Glu Asn Gln Pro Gly Trp Leu Cys
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Pro Asp Glu Asp Lys Lys Ser Lys Ala Pro Phe Trp Cys Pro Ile Leu
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Ser Pro Arg Thr Val Lys Ser Phe Pro Leu Ala Ala Pro Val Leu Cys		
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Met Glu Tyr Ile Pro Glu Leu Glu Glu Glu Ala Glu Ser Arg Asp Glu		
625	630	635
640		
Ser Pro Thr Val Ala Asp Pro Ser Ala Thr Val His Pro Thr Ile Cys		
645	650	655
Leu Gly Leu Gln Asp Gly Ser Ile Leu Leu Tyr Ser Ser Val Asp Thr		
660	665	670
Gly Thr Gln Cys Leu Val Ser Cys Arg Ser Pro Gly Leu Gln Pro Val		
675	680	685
Leu Cys Leu Arg His Ser Pro Phe His Leu Leu Ala Gly Leu Gln Asp		
690	695	700
Gly Thr Leu Ala Ala Tyr Pro Arg Thr Ser Gly Gly Val Leu Trp Asp		
705	710	715
720		
Leu Glu Ser Pro Pro Val Cys Leu Thr Val Gly Pro Gly Pro Val Arg		
725	730	735
Thr Leu Leu Ser Leu Glu Asp Ala Val Trp Ala Ser Cys Gly Pro Arg		
740	745	750
Val Thr Val Leu Glu Ala Thr Thr Leu Gln Pro Gln Gln Ser Phe Glu		
755	760	765
Ala His Gln Asp Glu Ala Val Ser Val Thr His Met Val Lys Ala Gly		
770	775	780
Ser Gly Val Trp Met Ala Phe Ser Ser Gly Thr Ser Ile Arg Leu Phe		
785	790	795
800		

His Thr Glu Thr Leu Glu His Leu Gln Glu Ile Asn Ile Ala Thr Arg
805 810 815

Thr Thr Phe Leu Leu Pro Gly Gln Lys His Leu Cys Val Thr Ser Leu
820 825 830

Leu Ile Cys Gln Gly Leu Leu Trp Val Gly Thr Asp Gln Gly Val Ile
835 840 845

Val Leu Leu Pro Val Pro Arg Leu Glu Gly Ile Pro Lys Ile Thr Gly
850 855 860

Lys Gly Met Val Ser Leu Asn Gly His Cys Gly Pro Val Ala Phe Leu
865 870 875 880

Ala Val Ala Thr Ser Ile Leu Ala Pro Asp Ile Leu Arg Ser Asp Gln
885 890 895

Glu Glu Ala Glu Gly Pro Arg Ala Glu Glu Asp Lys Pro Asp Gly Gln
900 905 910

Ala His Glu Pro Met Pro Asp Ser His Val Gly Arg Glu Leu Thr Arg
915 920 925

Lys Lys Gly Ile Leu Leu Gln Tyr Arg Leu Arg Ser Thr Ala His Leu
930 935 940

Pro Gly Pro Leu Leu Ser Met Arg Glu Pro Ala Pro Ala Asp Gly Ala
945 950 955 960

Ala Leu Glu His Ser Glu Glu Asp Gly Ser Ile Tyr Glu Met Ala Asp
965 970 975

Asp Pro Asp Val Trp Val Arg Ser Arg Pro Cys Ala Arg Asp Ala His
980 985 990

Arg Lys Glu Ile Cys Ser Val Ala Ile Ile Ser Gly Gly Gln Gly Tyr
995 1000 1005

Arg Asn Phe Gly Ser Ala Leu Gly Ser Ser Gly Arg Gln Ala Pro Cys
1010 1015 1020

Gly Glu Thr Asp Ser Thr Leu Leu Ile Trp Gln Val Pro Leu Met Leu

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<210> 2246

<211> 1113

<212> PRT

<213> Homo sapiens

<400> 2246

Met Glu Pro Leu Leu Leu Gly Arg Gly Leu Ile Val Tyr Leu Met Phe

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Leu Leu Leu Lys Phe Ser Lys Ala Ile Glu Ile Pro Ser Ser Val Gln

20

25

30

Gln Val Pro Thr Ile Ile Lys Gln Ser Lys Val Gln Val Ala Phe Pro

35

40

45

Phe Asp Glu Tyr Phe Gln Ile Glu Cys Glu Ala Lys Gly Asn Pro Glu

50

55

60

Pro Thr Phe Ser Trp Thr Lys Asp Gly Asn Pro Phe Tyr Phe Thr Asp

65

70

75

80

His Arg Ile Ile Pro Ser Asn Asn Ser Gly Thr Phe Arg Ile Pro Asn

85

90

95

Glu Gly His Ile Ser His Phe Gln Gly Lys Tyr Arg Cys Phe Ala Ser

100

105

110

Asn Lys Leu Gly Ile Ala Met Ser Glu Glu Ile Glu Phe Ile Val Pro

115

120

125

Ser Val Pro Lys Phe Pro Lys Glu Lys Ile Asp Pro Leu Glu Val Glu

130

135

140

Glu Gly Asp Pro Ile Val Leu Pro Cys Asn Pro Pro Lys Gly Leu Pro

145

150

155

160

Pro Leu His Ile Tyr Trp Met Asn Ile Glu Leu Glu His Ile Glu Gln
165 170 175
Asp Glu Arg Val Tyr Met Ser Gln Lys Gly Asp Leu Tyr Phe Ala Asn
180 185 190
Val Glu Glu Lys Asp Ser Arg Asn Asp Tyr Cys Cys Phe Ala Ala Phe
195 200 205
Pro Arg Leu Arg Thr Ile Val Gln Lys Met Pro Met Lys Leu Thr Val
210 215 220
Asn Ser Ser Asn Ser Ile Lys Gln Arg Lys Pro Lys Leu Leu Leu Pro
225 230 235 240
Pro Thr Glu Ser Gly Ser Glu Ser Ser Ile Thr Ile Leu Lys Gly Glu
245 250 255
Ile Leu Leu Leu Glu Cys Phe Ala Glu Gly Leu Pro Thr Pro Gln Val
260 265 270
Asp Trp Asn Lys Ile Gly Gly Asp Leu Pro Lys Gly Arg Glu Ala Lys
275 280 285
Glu Asn Tyr Gly Lys Thr Leu Lys Ile Glu Asn Val Ser Tyr Gln Asp
290 295 300
Lys Gly Asn Tyr Arg Cys Thr Ala Ser Asn Phe Leu Gly Thr Ala Thr
305 310 315 320
His Asp Phe His Val Ile Val Glu Glu Pro Pro Arg Trp Thr Lys Lys
325 330 335
Pro Gln Ser Ala Val Tyr Ser Thr Gly Ser Asn Gly Ile Leu Leu Cys
340 345 350
Glu Ala Glu Gly Glu Pro Gln Pro Thr Ile Lys Trp Arg Val Asn Gly
355 360 365
Ser Pro Val Asp Asn His Pro Phe Ala Gly Asp Val Val Phe Pro Arg
370 375 380
Glu Ile Ser Phe Thr Asn Leu Gln Pro Asn His Thr Ala Val Tyr Gln

385 390 395 400
Cys Glu Ala Ser Asn Val His Gly Thr Ile Leu Ala Asn Ala Asn Ile
 405 410 415
Asp Val Val Asp Val Arg Pro Leu Ile Gln Thr Lys Asp Gly Glu Asn
 420 425 430
Tyr Ala Thr Val Val Gly Tyr Ser Ala Phe Leu His Cys Glu Phe Phe
 435 440 445
Ala Ser Pro Glu Ala Val Val Ser Trp Gln Lys Val Glu Glu Val Lys
 450 455 460
Pro Leu Glu Gly Arg Arg Tyr His Ile Tyr Glu Asn Gly Thr Leu Gln
465 470 475 480
Ile Asn Arg Thr Thr Glu Glu Asp Ala Gly Ser Tyr Ser Cys Trp Val
 485 490 495
Glu Asn Ala Ile Gly Lys Thr Ala Val Thr Ala Asn Leu Asp Ile Arg
 500 505 510
Asn Ala Thr Lys Leu Arg Val Ser Pro Lys Asn Pro Arg Ile Pro Lys
 515 520 525
Leu His Met Leu Glu Leu His Cys Glu Ser Lys Cys Asp Ser His Leu
 530 535 540
Lys His Ser Leu Lys Leu Ser Trp Ser Lys Asp Gly Glu Ala Phe Glu
545 550 555 560
Ile Asn Gly Thr Glu Asp Gly Arg Ile Ile Ile Asp Gly Ala Asn Leu
 565 570 575
Thr Ile Ser Asn Val Thr Leu Glu Asp Gln Gly Ile Tyr Cys Cys Ser
 580 585 590
Ala His Thr Ala Leu Asp Ser Ala Ala Asp Ile Thr Gln Val Thr Val
 595 600 605
Leu Asp Val Pro Asp Pro Pro Glu Asn Leu His Leu Ser Glu Arg Gln
610 615 620

Asn Arg Ser Val Arg Leu Thr Trp Glu Ala Gly Ala Asp His Asn Ser
625 630 635 640
Asn Ile Ser Glu Tyr Ile Val Glu Phe Glu Gly Asn Lys Glu Glu Pro
645 650 655
Gly Arg Trp Glu Glu Leu Thr Arg Val Gln Gly Lys Lys Thr Thr Val
660 665 670
Ile Leu Pro Leu Ala Pro Phe Val Arg Tyr Gln Phe Arg Val Ile Ala
675 680 685
Val Asn Glu Val Gly Arg Ser Gln Pro Ser Gln Pro Ser Asp His His
690 695 700
Glu Thr Pro Pro Ala Ala Pro Asp Arg Asn Pro Gln Asn Ile Arg Val
705 710 715 720
Gln Ala Ser Gln Pro Lys Glu Met Ile Ile Lys Trp Glu Pro Leu Lys
725 730 735
Ser Met Glu Gln Asn Gly Pro Gly Leu Glu Tyr Arg Val Thr Trp Lys
740 745 750
Pro Gln Gly Ala Pro Val Glu Trp Glu Glu Glu Thr Val Thr Asn His
755 760 765
Thr Leu Arg Val Met Thr Pro Ala Val Tyr Ala Pro Tyr Asp Val Lys
770 775 780
Val Gln Ala Ile Asn Gln Leu Gly Ser Gly Pro Asp Pro Gln Ser Val
785 790 795 800
Thr Leu Tyr Ser Gly Glu Asp Tyr Pro Asp Thr Ala Pro Val Ile His
805 810 815
Gly Val Asp Val Ile Asn Ser Thr Leu Val Lys Val Thr Trp Ser Thr
820 825 830
Val Pro Lys Asp Arg Val His Gly Arg Leu Lys Gly Tyr Gln Ile Asn
835 840 845
Trp Trp Lys Thr Lys Ser Leu Leu Asp Gly Arg Thr His Pro Lys Glu

850 855 860
Val Asn Ile Leu Arg Phe Ser Gly Gln Arg Asn Ser Gly Met Val Pro
865 870 875 880
Ser Leu Asp Ala Phe Ser Glu Phe His Leu Thr Val Leu Ala Tyr Asn
885 890 895
Ser Lys Gly Ala Gly Pro Glu Ser Glu Pro Tyr Ile Phe Gln Thr Pro
900 905 910
Glu Gly Val Pro Glu Gln Pro Thr Phe Leu Lys Val Ile Lys Val Asp
915 920 925
Lys Asp Thr Ala Thr Leu Ser Trp Gly Leu Pro Lys Lys Leu Asn Gly
930 935 940
Asn Leu Thr Gly Tyr Leu Leu Gln Tyr Gln Ile Ile Asn Asp Thr Tyr
945 950 955 960
Glu Ile Gly Glu Leu Asn Asp Ile Asn Ile Thr Thr Pro Ser Lys Pro
965 970 975
Ser Trp His Leu Ser Asn Leu Asn Ala Thr Thr Lys Tyr Lys Phe Tyr
980 985 990
Leu Arg Ala Cys Thr Ser Gln Gly Cys Gly Lys Pro Ile Thr Glu Glu
995 1000 1005
Ser Ser Thr Leu Gly Glu Gly Ser Lys Gly Ile Gly Lys Ile Ser Gly
1010 1015 1020
Val Asn Leu Thr Gln Lys Thr His Pro Val Glu Val Phe Glu Pro Gly
1025 1030 1035 1040
Ala Glu His Ile Val Arg Leu Met Thr Lys Asn Trp Gly Asp Asn Asp
1045 1050 1055
Ser Ile Phe Gln Asp Val Ile Glu Thr Arg Gly Arg Glu Tyr Ala Gly
1060 1065 1070
Leu Tyr Asp Asp Ile Ser Thr Gln Gly Trp Phe Ile Gly Leu Met Cys
1075 1080 1085

Ala Ile Ala Leu Leu Thr Leu Leu Leu Leu Thr Val Cys Phe Val Lys

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1095

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Arg Asn Arg Gly Gly Lys Tyr Ser Val

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<210> 2247

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2247

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Leu Gln Thr Arg Ser Leu Lys Ala Ile Glu Ile Tyr Ser Leu Thr Leu

20

25

30

Leu Glu Ala Arg Ser Pro Lys Ser Arg Cys Trp Leu Ser His Ile Pro

35

40

45

Ser Gly Gly Ser Leu Gly Glu Lys Ser Val Pro Cys Leu Phe Gln Phe

50

55

60

Leu Leu Cys Met Gly His Ser Leu Thr Cys Gly Cys Leu Thr Pro Val

65

70

75

80

Ser Ala Ser Val Val Ile Ile Ala Phe Phe Ser Val Leu Cys Leu Leu

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Phe Cys Val Ser Gln Ile Ser Leu Ser Ala Phe Phe Phe

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105

<210> 2248

<211> 458

<212> PRT

<213> Homo sapiens

<400> 2248

Met Ala Thr Ser Met Ala Ala Ala Ser Gly Arg Phe Glu Ser Ala Lys

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Ser Ile Glu Glu Arg Lys Glu Gln Thr Arg Asn Ala Arg Ala Glu Val

20 25 30

Leu Arg Gln Ala Lys Ala Asn Phe Glu Lys Glu Glu Arg Arg Lys Glu

35 40 45

Leu Lys Arg Leu Arg Gly Glu Asp Thr Trp Met Leu Pro Asp Val Asn

50 55 60

Glu Arg Ile Glu Gln Phe Ser Gln Glu His Ser Val Lys Lys Lys Lys

65 70 75 80

Lys Lys Asp Lys His Ser Lys Lys Ala Lys Lys Glu Lys Lys Lys Lys

85 90 95

Ser Lys Lys Gln Lys Tyr Glu Lys Asn Asn Glu Ser Ser Asp Ser Ser

100 105 110

Ser Ser Ser Glu Asp Glu Trp Val Glu Ala Val Pro Ser Gln Thr Pro

115 120 125

Asp Lys Glu Lys Ala Trp Lys Val Lys Asp Glu Lys Ser Gly Lys Asp

130 135 140

Asp Thr Gln Ile Ile Lys Arg Asp Glu Trp Met Thr Val Asp Phe Met

145 150 155 160

Ser Val Lys Thr Val Ser Ser Ser Ser Leu Lys Ala Glu Lys Glu Thr

165 170 175

Met Arg Lys Ile Glu Gln Glu Lys Asn Gln Ala Leu Glu Gln Ser Lys

180 185 190

Leu Met Glu Arg Glu Leu Asn Pro Tyr Trp Lys Asp Gly Gly Thr Gly
195 200 205

Leu Pro Pro Glu Asp Cys Ser Val Ser Ser Ile Thr Lys Val Ser Val
210 215 220

Val Glu Asp Gly Gly Leu Ser Trp Leu Arg Lys Ser Tyr Leu Arg Met
225 230 235 240

Lys Glu Gln Ala Glu Lys Gln Ser Arg Asn Phe Glu Asp Ile Val Ala
245 250 255

Glu Arg Tyr Gly Ser Met Glu Ile Phe Gln Ser Lys Leu Glu Asp Ala
260 265 270

Glu Lys Ala Ala Ser Thr Lys Glu Asp Tyr Arg Arg Glu Arg Trp Arg
275 280 285

Lys Pro Thr Tyr Ser Asp Lys Ala Gln Asn Cys Gln Glu Ser Arg Glu
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Ser Asp Leu Val Lys Tyr Gly Asn Ser Ser Arg Asp Arg Tyr Ala Thr
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Thr Asp Thr Ala Lys Asn Ser Asn Asn Glu Lys Phe Ile Gly Asp Glu
325 330 335

Lys Asp Lys Arg Pro Gly Ser Leu Glu Thr Cys Arg Arg Glu Ser Asn
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Pro Arg Gln Asn Gln Glu Phe Ser Phe Gly Asn Leu Arg Ala Lys Phe
355 360 365

Leu Arg Pro Ser Asp Asp Glu Glu Leu Ser Phe His Ser Lys Gly Arg
370 375 380

Lys Phe Glu Pro Leu Ser Ser Ser Ser Ala Leu Val Ala Gln Gly Ser
385 390 395 400

Leu Cys Ser Gly Phe Arg Lys Pro Thr Lys Asn Ser Glu Glu Arg Leu
405 410 415

Thr Ser Trp Ser Arg Ser Asp Gly Arg Gly Asp Lys Lys His Ser Asn

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 Gln Lys Pro Ser Glu Thr Val Leu Met Asn Thr Asn Met Phe Gln Lys
 435 440 445
 Thr Gln Glu Lys Asn His Lys Met Lys Ser
 450 455

<210> 2249

<211> 362

<212> PRT

<213> Homo sapiens

<400> 2249

Met Lys Pro Leu Lys Ala Thr Ala Thr Thr Ser Gln Pro Val Leu Thr
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 Ile Gln Gln Ile Glu Thr Ile Phe Tyr Lys Ile Gln Asp Ile Tyr Glu
 20 25 30
 Ile His Lys Glu Phe Tyr Asp Asn Leu Cys Pro Lys Val Gln Gln Trp
 35 40 45
 Asp Ser Gln Val Thr Met Gly His Leu Phe Gln Lys Leu Ala Ser Gln
 50 55 60
 Leu Gly Val Tyr Lys Ala Phe Val Asp Asn Tyr Lys Val Ala Leu Glu
 65 70 75 80
 Thr Ala Glu Lys Cys Ser Gln Ser Asn Asn Gln Phe Gln Lys Ile Ser
 85 90 95
 Glu Glu Leu Lys Val Lys Gly Pro Lys Asp Ser Lys Asp Ser His Thr
 100 105 110
 Ser Val Thr Met Glu Ala Leu Leu Tyr Lys Pro Ile Asp Arg Val Thr
 115 120 125

Arg Ser Thr Leu Val Leu His Asp Leu Leu Lys His Thr Pro Val Asp
 130 135 140
 His Pro Asp Tyr Pro Leu Leu Gln Asp Ala Leu Arg Ile Ser Gln Asn
 145 150 155 160
 Phe Leu Ser Ser Ile Asn Glu Asp Ile Asp Pro Arg Arg Thr Ala Val
 165 170 175
 Thr Thr Pro Lys Gly Glu Thr Arg Gln Leu Val Lys Asp Gly Phe Leu
 180 185 190
 Val Glu Val Ser Glu Ser Ser Arg Lys Leu Arg His Val Phe Leu Phe
 195 200 205
 Thr Asp Val Leu Leu Cys Ala Lys Leu Lys Lys Thr Ser Ala Gly Lys
 210 215 220
 His Gln Gln Tyr Asp Cys Lys Trp Tyr Ile Pro Leu Ala Asp Leu Val
 225 230 235 240
 Phe Pro Ser Pro Glu Glu Ser Glu Ala Ser Pro Gln Val His Pro Phe
 245 250 255
 Pro Asp His Glu Leu Glu Asp Met Lys Met Lys Ile Ser Ala Leu Lys
 260 265 270
 Ser Glu Ile Gln Lys Glu Val Glu Lys Arg Gly Ile Glu Glu Val Gly
 275 280 285
 Ile Tyr Arg Ile Ser Gly Val Ala Thr Asp Ile Gln Ala Leu Lys Ala
 290 295 300
 Val Phe Asp Ala Asn Asn Lys Asp Ile Leu Leu Met Leu Ser Asp Met
 305 310 315 320
 Asp Ile Asn Ala Ile Ala Gly Thr Leu Lys Leu Tyr Phe Arg Glu Leu
 325 330 335
 Pro Glu Pro Leu Leu Thr Asp Arg Leu Arg Pro Cys Pro Thr Pro Thr
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 Ser Ser Pro Ser Ser Ser Cys Trp Asn Thr

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<210> 2250

<211> 442

<212> PRT

<213> Homo sapiens

<400> 2250

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Thr Leu Ala Gly Tyr Glu Glu Thr Leu Thr Arg Leu Ala Ala Ile Leu

20 25 30

Ala Lys His Phe Ala Asp Ala Arg Ile Val Gly Thr Asp Ile Arg Asp

35 40 45

Ser Leu Met Gln Ala Leu Ala Ser Tyr Val Cys Tyr Pro His Ser Leu

50 55 60

Arg Ala Val Glu Arg Ile Pro Glu Glu Gln Arg Ile Ala Met Val Arg

65 70 75 80

Asn Leu Leu Ala Pro Tyr Glu Gln Arg Pro Trp Ala Gln Thr Asn Trp

85 90 95

Ile Leu Val Arg Leu Trp Arg Gly Cys Gly Phe Gly Tyr Arg Tyr Thr

100 105 110

Arg Leu Pro His Leu Leu Lys Thr Lys Leu Glu Asp Ala Asn Leu Pro

115 120 125

Ser Leu Gln Lys Pro Cys Pro Ser Thr Leu Leu Gln Gln His Met Ala

130 135 140

Asp Leu Leu Gln Gln Gly Pro Asp Val Ala Pro Ser Phe Leu Asn Ser

145 150 155 160

Val Leu Asn Gln Leu Asn Trp Ala Phe Ser Glu Phe Ile Gly Met Ile
165 170 175
Gln Glu Ile Gln Gln Ala Ala Glu Arg Leu Glu Arg Asn Phe Val Asp
180 185 190
Ser Arg Gln Leu Lys Val Cys Ala Thr Cys Phe Asp Leu Ser Val Ser
195 200 205
Leu Leu Arg Val Leu Glu Met Thr Ile Thr Leu Val Pro Glu Ile Phe
210 215 220
Leu Asp Trp Thr Arg Pro Thr Ser Glu Met Leu Leu Arg Arg Leu Ala
225 230 235 240
Gln Leu Leu Asn Gln Val Leu Asn Arg Val Thr Ala Glu Arg Asn Leu
245 250 255
Phe Asp Arg Val Val Thr Leu Arg Leu Pro Gly Leu Glu Ser Val Asp
260 265 270
His Tyr Pro Ile Leu Val Ala Val Thr Gly Ile Leu Val Gln Leu Leu
275 280 285
Val Arg Gly Pro Ala Ser Glu Arg Glu Gln Ala Thr Ser Val Leu Leu
290 295 300
Ala Asp Pro Cys Phe Gln Leu Arg Ser Ile Cys Tyr Leu Leu Gly Gln
305 310 315 320
Pro Glu Pro Pro Ala Pro Gly Thr Ala Leu Pro Ala Pro Asp Arg Lys
325 330 335
Arg Phe Ser Leu Gln Ser Tyr Ala Asp Tyr Ile Ser Ala Asp Glu Leu
340 345 350
Ala Gln Val Glu Gln Met Leu Ala His Leu Thr Ser Ala Ser Ala Gln
355 360 365
Ala Ala Ala Ala Ser Leu Pro Thr Ser Glu Glu Asp Leu Cys Pro Ile
370 375 380
Cys Tyr Ala His Pro Ile Ser Ala Val Phe Gln Pro Cys Gly His Lys

385 390 395 400
 Ser Cys Lys Ala Cys Ile Asn Gln His Leu Met Asn Asn Lys Asp Cys
 405 410 415
 Phe Phe Cys Lys Thr Thr Ile Val Ser Val Glu Asp Trp Glu Lys Gly
 420 425 430
 Ala Asn Thr Ser Thr Thr Ser Ser Ala Ala
 435 440

<210> 2251

<211> 175

<212> PRT

<213> Homo sapiens

<400> 2251

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 Thr His Thr Leu Thr Tyr Thr His Ile His Met His Thr His Thr Gln
 35 40 45
 Thr His Ile Tyr Thr Gln Ala His Ile His Ser Cys Thr Gln Ile Asn
 50 55 60
 Ile Tyr Thr Tyr Ala Tyr Thr Leu Thr Cys Thr Gln Thr His Thr His
 65 70 75 80
 Ile Cys Thr His Ala His Thr Leu Thr Tyr Thr His Ile His Thr Cys
 85 90 95
 Thr Tyr Lys Arg Thr Tyr Ile Gln Gly His Ile His Thr His Met His
 100 105 110

Thr Tyr Thr Cys Thr Cys Thr His Thr His Lys His Ile His Ala His
 115 120 125
 Ile His Ile His Thr His Thr His Ile Tyr Thr His Thr Asp Ala Tyr
 130 135 140
 Thr His Met Asp Thr Tyr Thr His Thr Tyr Pro His Thr His Ile Cys
 145 150 155 160
 Ile His Ser His Thr His Ala His Thr Tyr Thr His Ile Arg Thr
 165 170 175

<210> 2252

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<212> PRT

<213> Homo sapiens

<400> 2252

Met Cys Ala Gln Ala Ser Pro Cys Arg Pro Gln Ala Arg Ala Leu Glu
 1 5 10 15
 Asp Thr His Arg Gly Leu Cys Leu His Phe His Phe Leu Val Glu His
 20 25 30
 Pro Leu Pro Gly Ala Trp Ala Glu Leu Arg Asp Ser Cys His Pro His
 35 40 45
 Leu Ala Lys Glu Gly Ala Arg Ala Gln Arg Ser Gly Val Ala Thr Ser
 50 55 60
 Gln Gly Ser Thr Pro Pro Trp Cys Arg Ser Ser Leu Cys Ile Trp Pro
 65 70 75 80
 Gln Ala Thr Cys Phe Leu Ala Pro Pro Pro His Arg Gly Phe Leu Pro
 85 90 95
 Leu Leu Trp Leu Phe Leu Phe Pro Ser Ile Pro Pro Leu Ser Pro Phe

Leu Phe Lys Ala Leu Ser Glu Glu Ala Trp Asn Ser Gly Phe Met Gly
 35 40 45
 Asn Ser Ser Arg Thr Ala Asp Lys Glu Asn Thr Leu Gln Cys Pro Lys
 50 55 60
 Thr Pro Leu Arg Gln Asp Leu Glu Ala Asn Glu Gln Asp Ala Arg Pro
 65 70 75 80
 Lys Gln Glu Asn His Leu His Ser Leu Gly Arg Asn Lys Val Gly Tyr
 85 90 95
 His Leu His Pro Ser Asp Lys Gly Gln Phe Asp His Ser Lys Asp Gly
 100 105 110
 Trp Leu Gly Pro Gly Pro Met Pro Ala Val His Lys Ala Ala Asn Gly
 115 120 125
 His Ser Arg Thr Lys Met Ile Ser Thr Ser Ile Lys Thr Ala Arg Lys
 130 135 140
 Ser Lys Arg Ala Ser Gly Leu Arg Ile Asn Asp Tyr Asp Asn Gln Cys
 145 150 155 160
 Asp Val Val Tyr Ile Ser Gln Pro Ile Thr Glu Cys His Phe Glu Asn
 165 170 175
 Gln Lys Ser Ile Leu Ser Ser Arg Lys Thr Ala Arg Lys Ser Thr Arg
 180 185 190
 Gly Tyr Phe Phe Asn Gly Asp Cys Cys Glu Leu Pro Thr Val Arg Thr
 195 200 205
 Leu Ala Arg Asn Leu His Ser Gln Glu Lys Ala Ser Cys Ser Ala Leu
 210 215 220
 Ala Ser Glu Ala Val Phe Thr Pro Lys Gln Thr Leu Thr Ile Pro Ala
 225 230 235 240
 Pro Arg His Thr Val Asp Val Gln Leu Pro Arg Glu Asp Asn Pro Glu
 245 250 255
 Glu Pro Ser Lys Glu Ile Thr Ser His Glu Glu Gly Gly Gly Asp Val

260	265	270
Ser Pro Arg Lys Glu Pro Gln Glu Pro Glu Val Cys Pro Thr Lys Ile		
275	280	285
Lys Pro Asn Leu Ser Ser Ser Pro Arg Ser Glu Glu Thr Thr Ala Ser		
290	295	300
Ser Leu Val Trp Pro Leu Pro Ala His Leu Pro Glu Glu Asp Leu Pro		
305	310	315
Glu Gly Gly Ser Thr Val Ser Ala Pro Thr Ala Ser Gly Met Ser Ser		
325	330	335
Pro Glu His Asn Gln Pro Pro Val Ala Leu Leu Asp Thr Glu Glu Met		
340	345	350
Ser Val Pro Gln Asp Cys His Leu Leu Pro Ser Thr Glu Ser Phe Ser		
355	360	365
Gly Gly Val Ser Glu Asp Val Ile Ser Arg Pro His Ser Pro Pro Glu		
370	375	380
Ile Val Ser Arg Glu Glu Ser Pro Gln Cys Ser Glu Asn Gln Ser Ser		
385	390	395
Pro Met Gly Leu Glu Pro Pro Met Ser Leu Gly Lys Ala Glu Asp Asn		
405	410	415
Gln Ser Ile Ser Ala Glu Val Glu Ser Gly Asp Thr Gln Glu Leu Asn		
420	425	430
Val Asp Pro Leu Leu Lys Glu Ser Ser Thr Phe Thr Asp Glu Asn Pro		
435	440	445
Ser Glu Thr Glu Glu Ser Glu Ala Ala Gly Gly Ile Gly Lys Leu Glu		
450	455	460
Gly Glu Asp Gly Asp Val Lys Cys Leu Ser Glu Lys Asp Thr Tyr Asp		
465	470	475
Thr Ser Ile Asp Ser Leu Glu Glu Asn Leu Asp Lys Lys Lys Lys Gly		
485	490	495

Lys Lys Phe Pro Glu Ala Ser Asp Arg Cys Leu Arg Ser Gln Leu Ser
500 505 510
Asp Ser Ser Ser Ala Asp Arg Cys Leu Arg Asn Gln Ser Ser Asp Ser
515 520 525
Ser Ser Ala Cys Leu Glu Ile Lys Val Pro Lys Asn Pro Ser Ala Lys
530 535 540
Arg Ser Lys Lys Glu Gly His Pro Gly Gly Thr Thr Pro Lys Gly Leu
545 550 555 560
Leu Pro Asp Ser Phe His Thr Glu Thr Leu Glu Asp Thr Glu Lys Pro
565 570 575
Ser Val Asn Glu Arg Pro Ser Glu Lys Asp Ala Glu Gln Glu Gly Glu
580 585 590
Gly Gly Gly Ile Ile Thr Arg Gln Thr Leu Lys Asn Met Leu Asp Lys
595 600 605
Glu Val Lys Glu Leu Arg Gly Glu Ile Phe Pro Ser Arg Asp Pro Ile
610 615 620
Thr Thr Ala Gly Gln Pro Leu Pro Gly Glu Arg Leu Glu Ile Tyr Val
625 630 635 640
Gln Ser Lys Met Asp Glu Lys Asn Ala His Ile Pro Ser Glu Ser Ile
645 650 655
Ala Cys Lys Arg Asp Pro Glu Gln Ala Lys Glu Glu Pro Gly His Ile
660 665 670
Pro Thr Gln His Val Glu Glu Ala Val Asn Glu Val Asp Asn Glu Asn
675 680 685
Thr Gln Gln Lys Asp Asp Glu Ser Asp Ala Pro Cys Ser Ser Leu Gly
690 695 700
Leu Ser Ser Ser Gly Ser Gly Asp Ala Ala Arg Ala Pro Lys Ser Val
705 710 715 720
Pro Arg Pro Lys Arg Leu Thr Ser Ser Thr Tyr Asn Leu Arg His Ala

725	730	735
His Ser Leu Gly Ser Leu Gly Ala Ser Lys Val Thr Ser Glu Lys Glu		
740	745	750
Ala Ala Gln Val Asn Pro Ile Met Pro Lys Glu Asn Gly Ala Ser Glu		
755	760	765
Ser Gly Asp Pro Leu Asp Glu Asp Asp Val Asp Thr Val Val Asp Glu		
770	775	780
Gln Pro Lys Phe Met Glu Trp Cys Ala Glu Glu Glu Asn Gln Glu Leu		
785	790	795
Ile Ala Asn Phe Asn Ala Gln Tyr Met Lys Val Gln Lys Gly Trp Ile		
805	810	815
Gln Leu Glu Lys Glu Gly Gln Pro Thr Pro Arg Ala Arg Asn Lys Ser		
820	825	830
Asp Lys Leu Lys Glu Ile Trp Lys Ser Lys Lys Arg Ser Arg Lys Cys		
835	840	845
Arg Ser Ser Leu Glu Ser Gln Lys Cys Ser Pro Val Gln Met Leu Phe		
850	855	860
Met Thr Asn Phe Lys Leu Ser Asn Val Cys Lys Trp Phe Leu Glu Thr		
865	870	875
Thr Glu Thr Arg Ser Leu Val Ile Val Lys Lys Leu Asn Thr Arg Leu		
885	890	895
Pro Gly Asp Val Pro Pro Val Lys His Pro Leu Gln Lys Tyr Ala Pro		
900	905	910
Ser Ser Leu Tyr Pro Ser Ser Leu Gln Ala Glu Arg Leu Lys Lys His		
915	920	925
Leu Lys Lys Phe Pro Gly Ala Thr Pro Ala Lys Asn Asn Trp Lys Met		
930	935	940
Gln Lys Leu Trp Ala Lys Phe Arg Glu Asn Pro Asp Gln Val Glu Pro		
945	950	955
		960

Glu Asp Gly Ser Asp Val Ser Pro Gly Pro Asn Ser Glu Asp Ser Ile
965 970 975
Glu Glu Val Lys Glu Asp Arg Asn Ser His Pro Pro Ala Asn Leu Pro
980 985 990
Thr Pro Ala Ser Thr Arg Ile Leu Arg Lys Tyr Ser Asn Ile Arg Gly
995 1000 1005
Lys Leu Arg Ala Gln Gln Arg Leu Ile Lys Asn Glu Lys Met Glu Cys
1010 1015 1020
Pro Asp Ala Leu Ala Val Glu Ser Lys Pro Ser Arg Lys Ser Val Cys
1025 1030 1035 1040
Ile Asn Pro Leu Met Ser Pro Lys Leu Ala Leu Gln Val Asp Ala Asp
1045 1050 1055
Gly Phe Pro Val Lys Pro Lys Ser Thr Glu Gly Met Lys Gly Arg Lys
1060 1065 1070
Gly Lys Gln Val Ser Glu Ile Leu Pro Lys Ala Glu Val Gln Ser Lys
1075 1080 1085
Arg Lys Arg Thr Glu Gly Ser Ser Pro Pro Asp Ser Lys Asn Lys Gly
1090 1095 1100
Pro Thr Val Lys Ala Ser Lys Glu Lys His Ala Asp Gly Ala Thr Lys
1105 1110 1115 1120
Thr Pro Ala Ala Lys Arg Pro Ala Ala Arg Asp Arg Ser Ser Gln Pro
1125 1130 1135
Pro Lys Lys Thr Ser Leu Lys Glu Asn Lys Val Lys Ile Pro Lys Lys
1140 1145 1150
Ser Ala Gly Lys Ser Cys Pro Pro Ser Arg
1155 1160

<210> 2254

<211> 484

<212> PRT

<213> Homo sapiens

<400> 2254

Met Glu Asp Glu Gln Pro Asp Ser Leu Glu Gly Trp Val Pro Val Arg

1 5 10 15

Glu Gly Leu Phe Ala Glu Pro Glu Arg His Arg Leu Arg Phe Leu Val

20 25 30

Ala Trp Asn Gly Ala Glu Gly Lys Phe Ala Val Thr Cys His Asp Arg

35 40 45

Thr Ala Gln Gln Arg Arg Leu Arg Glu Gly Ala Arg Leu Gly Pro Glu

50 55 60

Pro Glu Pro Lys Pro Glu Ala Ala Val Ser Pro Ser Ser Trp Ala Gly

65 70 75 80

Leu Leu Ser Ala Ala Gly Leu Arg Gly Ala His Arg Gln Leu Ala Ala

85 90 95

Leu Trp Pro Pro Leu Glu Arg Cys Phe Pro Arg Leu Pro Pro Glu Leu

100 105 110

Asp Val Gly Gly Gly Gly Ala Trp Gly Leu Gly Leu Gly Leu Trp Ala

115 120 125

Leu Leu Trp Pro Thr Arg Ala Gly Pro Gly Glu Ala Ala Leu Gln Glu

130 135 140

Leu Cys Gly Gln Leu Glu Arg Tyr Leu Gly Ala Ala Ala Asp Gly Cys

145 150 155 160

Gly Gly Ala Thr Val Arg Asp Ala Leu Phe Pro Ala Glu Gly Gly Ala

165 170 175

Ala Asp Cys Glu Ser Pro Arg Glu Phe Arg Glu Arg Ala Leu Arg Ala

180 185 190

Arg Trp Val Glu Ala Asp Ala Arg Leu Arg Gln Val Ile Gln Gly His
 195 200 205
 Gly Lys Ala Asn Thr Met Val Ala Leu Met Asn Val Tyr Gln Glu Glu
 210 215 220
 Asp Glu Ala Tyr Gln Glu Leu Val Thr Val Ala Thr Met Phe Phe Gln
 225 230 235 240
 Tyr Leu Leu Gln Pro Phe Arg Ala Met Arg Glu Val Ala Thr Leu Cys
 245 250 255
 Lys Leu Asp Ile Leu Lys Ser Leu Asp Glu Asp Asp Leu Gly Pro Arg
 260 265 270
 Arg Val Val Ala Leu Glu Lys Glu Ala Glu Glu Trp Thr Arg Arg Ala
 275 280 285
 Glu Glu Ala Val Val Ser Ile Gln Asp Ile Thr Val Asn Tyr Phe Lys
 290 295 300
 Glu Thr Val Lys Ala Leu Ala Gly Met Gln Lys Glu Met Glu Gln Asp
 305 310 315 320
 Ala Lys Arg Phe Gly Gln Ala Ala Trp Ala Thr Ala Ile Pro Arg Leu
 325 330 335
 Glu Lys Leu Gln Leu Met Leu Ala Arg Glu Thr Leu Gln Leu Met Arg
 340 345 350
 Ala Lys Glu Leu Cys Leu Asn His Lys Arg Ala Glu Ile Gln Gly Lys
 355 360 365
 Met Glu Asp Leu Pro Glu Gln Glu Lys Asn Thr Asn Val Val Asp Glu
 370 375 380
 Leu Glu Ile Gln Phe Tyr Glu Ile Gln Leu Glu Leu Tyr Glu Val Lys
 385 390 395 400
 Phe Glu Ile Leu Lys Asn Glu Glu Ile Leu Leu Thr Thr Gln Leu Asp
 405 410 415
 Ser Leu Lys Arg Leu Ile Lys Glu Lys Gln Asp Glu Val Val Tyr Tyr

420 425 430
 Asp Pro Cys Glu Asn Pro Glu Glu Leu Lys Val Ile Asp Cys Val Val
 435 440 445
 Gly Leu Gln Asp Asp Lys Asn Leu Glu Val Lys Glu Leu Arg Arg Gln
 450 455 460
 Cys Gln Gln Leu Glu Ser Lys Arg Gly Arg Ile Cys Ala Lys Lys Ser
 465 470 475 480
 Leu Ser Pro Glu

<210> 2255

<211> 687

<212> PRT

<213> Homo sapiens

<400> 2255

Met Ser Arg Val Cys Ile Val Val Leu Glu Glu Val Glu Asp Glu Ser
 1 5 10 15
 Pro Ala Phe Ile Ser Lys Leu Pro Gln Glu Asn Lys Ser Leu His Ser
 20 25 30
 Pro Pro Ser Gly Asn Val Leu Val Arg Tyr Pro Ser Leu Val Gln Ala
 35 40 45
 Ile Phe Asn Gly Asp Pro Asp Glu Val Arg Ala Leu Ile Phe Lys Lys
 50 55 60
 Glu Asp Val Asn Phe Gln Asp Asn Glu Lys Arg Thr Pro Leu His Ala
 65 70 75 80
 Ala Ala Tyr Leu Gly Asp Ala Glu Ile Ile Glu Leu Leu Ile Leu Ser
 85 90 95

Gly Ala Arg Val Asn Ala Lys Asp Ser Lys Trp Leu Thr Pro Leu His
 100 105 110
 Arg Ala Val Ala Ser Cys Ser Glu Glu Ala Val Gln Val Leu Leu Lys
 115 120 125
 His Ser Ala Asp Val Asn Ala Arg Asp Lys Asn Trp Gln Thr Pro Leu
 130 135 140
 His Ile Ala Ala Ala Asn Lys Ala Val Lys Cys Ala Glu Ala Leu Val
 145 150 155 160
 Pro Leu Leu Ser Asn Val Asn Val Ser Asp Arg Ala Gly Arg Thr Ala
 165 170 175
 Leu His His Ala Ala Phe Ser Gly His Gly Glu Met Val Lys Leu Leu
 180 185 190
 Leu Ser Arg Gly Ala Asn Ile Asn Ala Phe Asp Lys Lys Asp Arg Arg
 195 200 205
 Ala Ile His Trp Ala Ala Tyr Met Gly His Ile Glu Val Val Lys Leu
 210 215 220
 Leu Val Ser His Gly Ala Glu Val Thr Cys Lys Asp Lys Lys Ser Tyr
 225 230 235 240
 Thr Pro Leu His Ala Ala Ala Ser Ser Gly Met Ile Ser Val Val Lys
 245 250 255
 Tyr Leu Leu Asp Leu Gly Val Asp Met Asn Glu Pro Asn Ala Tyr Gly
 260 265 270
 Asn Thr Pro Leu His Val Ala Cys Tyr Asn Gly Gln Asp Val Val Val
 275 280 285
 Asn Glu Leu Ile Asp Cys Gly Ala Ile Val Asn Gln Lys Asn Glu Lys
 290 295 300
 Gly Phe Thr Pro Leu His Phe Ala Ala Ala Ser Thr His Gly Ala Leu
 305 310 315 320
 Cys Leu Glu Leu Leu Val Gly Asn Gly Ala Asp Val Asn Met Lys Ser

325	330	335
Lys Asp Gly Lys Thr Pro Leu His Met Thr Ala Leu His Gly Arg Phe		
340	345	350
Ser Arg Ser Gln Thr Ile Ile Gln Ser Gly Ala Val Ile Asp Cys Glu		
355	360	365
Asp Lys Asn Gly Asn Thr Pro Leu His Ile Ala Ala Arg Tyr Gly His		
370	375	380
Glu Leu Leu Ile Asn Thr Leu Ile Thr Ser Gly Ala Asp Thr Ala Lys		
385	390	395
Arg Gly Ile His Gly Met Phe Pro Leu His Leu Ala Ala Leu Ser Gly		
405	410	415
Phe Ser Asp Cys Cys Arg Lys Leu Leu Ser Ser Gly Phe Asp Ile Asp		
420	425	430
Thr Pro Asp Asp Phe Gly Arg Thr Cys Leu His Ala Ala Ala Ala Gly		
435	440	445
Gly Asn Leu Glu Cys Leu Asn Leu Leu Leu Asn Thr Gly Ala Asp Phe		
450	455	460
Asn Lys Lys Asp Lys Phe Gly Arg Ser Pro Leu His Tyr Ala Ala Ala		
465	470	475
Asn Cys Asn Tyr Gln Cys Leu Phe Ala Leu Val Gly Ser Gly Ala Ser		
485	490	495
Val Asn Asp Leu Asp Glu Arg Gly Cys Thr Pro Leu His Tyr Ala Ala		
500	505	510
Thr Ser Asp Thr Asp Gly Lys Cys Leu Glu Tyr Leu Leu Arg Asn Asp		
515	520	525
Ala Asn Pro Gly Val Arg Asp Lys Gln Gly Tyr Asn Ala Val His Tyr		
530	535	540
Ser Ala Ala Tyr Gly His Arg Leu Cys Leu Gln Leu Ile Ala Ser Glu		
545	550	555
		560

<210> 2256

<211> 536

<212> PRT

<213> Homo sapiens

<400> 2256

出証特 2 0 0 4 - 3 0 5 9 6 6 1

35 40 45
Asp Ser Ser Glu Leu Leu Glu Asp Met Met Ile Glu Met Arg Arg Cys
50 55 60
Tyr Ser Asn Gln Leu Val Ser Asp Arg Tyr Val Met Pro Glu Cys Phe
65 70 75 80
Ile Gln Pro Gly His Leu Cys Cys Val Arg Ile Ser Glu Asp Lys Trp
85 90 95
Trp Tyr Arg Val Ile Ile His Arg Val Leu Glu Lys Gln Glu Val Glu
100 105 110
Val Phe Tyr Pro Asp Phe Gly Asn Ile Gly Ile Val Gln Lys Ser Ser
115 120 125
Leu Arg Phe Leu Lys Cys Cys Tyr Thr Lys Leu Pro Ala Gln Ala Ile
130 135 140
Pro Cys Ser Leu Ala Trp Val Arg Pro Val Glu Glu His Trp Thr Ser
145 150 155 160
Lys Ala Ile Leu Gln Phe Gln Lys Leu Cys Gly Leu Lys Pro Leu Val
165 170 175
Gly Val Val Asp Glu Tyr Val Asp Gly Ile Leu Asn Ile Phe Leu Cys
180 185 190
Asp Thr Ser Ser Asn Glu Asp Val Tyr Phe His His Val Leu Arg Thr
195 200 205
Glu Gly His Ala Ile Val Cys Arg Glu Asn Ile Ser Ser Lys Gly Phe
210 215 220
Ser Glu Leu Asn Pro Leu Ala Leu Tyr Thr Thr Ser Ser Gly Gly Pro
225 230 235 240
Glu Asp Ile Val Leu Thr Glu Leu Gly Tyr Pro Ser Gln Gln His Tyr
245 250 255
Phe Asn Glu Asp Arg Lys Ile Ser Pro Gln Ser Lys Glu Ser Glu Leu
260 265 270

Arg Ile Leu Asp Glu Ile Pro Thr Gly Met Pro Cys Leu Glu Ser Val
 275 280 285
 Thr Ile Gly Asp Asp Ile Trp Asp Glu Asn Trp Leu Pro Leu Gln Ala
 290 295 300
 Lys Met Gly Lys Gly Gly Asp Ala Ala Ser His Leu Phe Thr Ala Ser
 305 310 315 320
 Leu Gly Gly Lys Asn Gln Tyr Ser Ser Cys Lys Glu Met Pro Gln Lys
 325 330 335
 Asp Trp Cys Phe Ser Thr Pro Lys Asp Thr Trp Asp Asp Ser Trp Gln
 340 345 350
 Pro Ser Gly Leu Val Asn Gly Thr Lys Val Glu Val His Lys Pro Glu
 355 360 365
 Val Leu Gly Ala Gln Glu Lys Asn Thr Gly Thr Asn Arg Thr Gln Lys
 370 375 380
 Gln Leu Asp Ile Asn Gly Ser Ser Asp Ser Ser Thr Leu Pro Lys Leu
 385 390 395 400
 Glu Glu Phe Cys Thr Ser Leu Thr Gln Ser Glu Gln Ser Ala Asp Gly
 405 410 415
 Ser Gln Ser Glu Pro Asn Asn Ser Gln Thr Gln Pro Lys Gln Ile Gln
 420 425 430
 Leu Ser Thr Ala Ala Pro Cys Ser Thr Thr Ala Val Asp Asp Ser Ala
 435 440 445
 Glu Lys Pro Ser Gly Ser Val Glu Ser Ser Pro Glu Ile Leu Lys Asn
 450 455 460
 Glu Asp Phe Ser Ser Ser Arg Ala Ile Thr Leu Tyr Lys Asp Lys Arg
 465 470 475 480
 Gln Glu Ser Val Asp Gln Leu Ser Leu Ile Leu Ser Tyr Glu Cys Gln
 485 490 495
 Ile Ser Gln Lys Leu Tyr Ile Pro Arg Ser Thr Ala Thr Ala Ala Leu

500 505 510
 Gly Ala Ala Ala Arg Leu Ala Thr Ser Arg Ser Leu Leu His Trp Tyr
 515 520 525
 Pro Ser Val Lys Arg Met Glu Ala
 530 535

<210> 2257

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2257

Met Ala Ala Pro Ala Leu Leu Pro Ala Arg Gly Gln Lys Leu Pro Ala
 1 5 10 15
 Leu Leu Leu Leu Pro Arg Arg Leu Pro Cys Val Leu Leu Leu Leu Pro
 20 25 30
 Trp Arg Leu Pro Cys Thr Ser Thr His Ala Ser Thr Gly Thr Ala Ala
 35 40 45
 Ser Gln Pro Thr Gln Cys Ser Glu Gly Pro Pro Ala Pro Leu Cys His
 50 55 60
 Ser His Ser His Val Pro Pro Glu Thr Leu Ser Pro Gln Leu His Arg
 65 70 75 80
 Val Ser Pro Gln Gln Ala Gln Gly Pro Ala His Gln Pro Ser Ala Gly
 85 90 95
 Ala Glu Trp Ala Leu Ala Pro Gly Val Leu Phe Cys Arg Ala Asp Gly
 100 105 110
 Cys Leu Cys Ser Pro Val Thr Gln His Ile Lys Glu Leu Leu Glu Arg
 115 120 125

Asn Thr Lys Lys Lys Ser Lys Leu Arg Lys Lys Pro Lys Pro Tyr Val
 130 135 140
 Glu Glu Pro Asp Gly Arg Ala Ser Pro Arg Ser Pro Trp Ala Arg Arg
 145 150 155 160
 Leu His Ser Ser Ala Leu Gln Pro Arg Pro Pro Gly Leu Leu Phe Ser
 165 170 175
 Asn Arg Phe Trp Ala Gly Gly Met Gly Pro Leu Thr Ser Gly Leu Trp
 180 185 190
 Pro Pro Glu Arg Ala Gly Gly Pro Arg
 195 200

<210> 2258

<211> 661

<212> PRT

<213> Homo sapiens

<400> 2258

Met Ala Ala Ile His Gly Arg Phe Thr Arg Ser Gln Ile Leu Ile Gln
 1 5 10 15
 Asn Gly Ser Glu Ile Asp Cys Ala Asp Lys Phe Gly Asn Thr Pro Leu
 20 25 30
 His Val Ala Ala Arg Tyr Gly His Glu Leu Leu Ile Ser Thr Leu Met
 35 40 45
 Thr Asn Gly Ala Asp Thr Ala Arg Arg Gly Ile His Asp Met Phe Pro
 50 55 60
 Leu His Leu Ala Val Leu Phe Gly Phe Ser Asp Cys Cys Arg Lys Leu
 65 70 75 80
 Leu Ser Ser Gly Gln Leu Tyr Ser Ile Val Ser Ser Leu Ser Asn Glu

	85	90	95
His Val Leu Ser Ala Gly Phe Asp Ile Asn Thr Pro Asp Asn Leu Gly			
100	105	110	
Arg Thr Cys Leu His Ala Ala Ala Ser Gly Gly Asn Val Glu Cys Leu			
115	120	125	
Asn Leu Leu Leu Ser Ser Gly Ala Asp Leu Arg Arg Arg Asp Lys Phe			
130	135	140	
Gly Arg Thr Pro Leu His Tyr Ala Ala Ala Asn Gly Ser Tyr Gln Cys			
145	150	155	160
Ala Val Thr Leu Val Thr Ala Gly Ala Gly Val Asn Glu Ala Asp Cys			
165	170	175	
Lys Gly Cys Ser Pro Leu His Tyr Ala Ala Ala Ser Asp Thr Tyr Arg			
180	185	190	
Arg Ala Glu Pro His Thr Pro Ser Ser His Asp Ala Glu Glu Asp Glu			
195	200	205	
Pro Leu Lys Glu Ser Arg Arg Lys Glu Ala Phe Phe Cys Leu Glu Phe			
210	215	220	
Leu Leu Asp Asn Gly Ala Asp Pro Ser Leu Arg Asp Arg Gln Gly Tyr			
225	230	235	240
Thr Ala Val His Tyr Ala Ala Ala Tyr Gly Asn Arg Gln Asn Leu Glu			
245	250	255	
Leu Leu Leu Glu Met Ser Phe Asn Cys Leu Glu Asp Val Glu Ser Thr			
260	265	270	
Ile Pro Val Ser Pro Leu His Leu Ala Ala Tyr Asn Gly His Cys Glu			
275	280	285	
Ala Leu Lys Thr Leu Ala Glu Thr Leu Val Asn Leu Asp Val Arg Asp			
290	295	300	
His Lys Gly Arg Thr Ala Leu Phe Leu Ala Thr Glu Arg Gly Ser Thr			
305	310	315	320

Glu Cys Val Glu Val Leu Thr Ala His Gly Ala Ser Ala Leu Ile Lys
325 330 335
Glu Arg Lys Arg Lys Trp Thr Pro Leu His Ala Ala Ala Ala Ser Gly
340 345 350
His Thr Asp Ser Leu His Leu Leu Ile Asp Ser Gly Glu Arg Ala Asp
355 360 365
Ile Thr Asp Val Met Asp Ala Tyr Gly Gln Thr Pro Leu Met Leu Ala
370 375 380
Ile Met Asn Gly His Val Asp Cys Val His Leu Leu Leu Glu Lys Gly
385 390 395 400
Ser Thr Ala Asp Ala Ala Asp Leu Arg Gly Arg Thr Ala Leu His Arg
405 410 415
Gly Ala Val Thr Gly Cys Glu Asp Cys Leu Ala Ala Leu Leu Asp His
420 425 430
Asp Ala Phe Val Leu Cys Arg Asp Phe Lys Gly Arg Thr Pro Ile His
435 440 445
Leu Ala Ser Ala Cys Gly His Thr Ala Val Leu Arg Thr Leu Leu Gln
450 455 460
Ala Ala Leu Ser Thr Asp Pro Leu Asp Ala Gly Val Asp Tyr Ser Gly
465 470 475 480
Tyr Ser Pro Met His Trp Ala Ser Tyr Thr Gly His Glu Asp Cys Leu
485 490 495
Glu Leu Leu Leu Glu His Ser Pro Phe Ser Tyr Leu Glu Gly Asn Pro
500 505 510
Phe Thr Pro Leu His Cys Ala Val Ile Asn Asn Gln Asp Ser Thr Thr
515 520 525
Glu Met Leu Leu Gly Ala Leu Gly Ala Lys Ile Val Asn Ser Arg Asp
530 535 540
Ala Lys Gly Arg Thr Pro Leu His Ala Ala Ala Phe Ala Asp Asn Val

545 550 555 560
 Ser Gly Leu Arg Met Leu Leu Gln His Gln Ala Glu Val Asn Ala Thr
 565 570 575
 Asp His Thr Gly Arg Thr Ala Leu Met Thr Ala Ala Glu Asn Gly Gln
 580 585 590
 Thr Ala Ala Val Glu Phe Leu Leu Tyr Arg Gly Lys Ala Asp Leu Thr
 595 600 605
 Val Leu Asp Glu Asn Lys Asn Thr Ala Leu His Leu Ala Cys Ser Lys
 610 615 620
 Gly His Glu Lys Cys Ala Leu Met Ile Leu Ala Glu Thr Gln Asp Leu
 625 630 635 640
 Ala Leu Ser Met Leu Pro Thr Val Arg Cys Arg Cys His Ser Thr Leu
 645 650 655
 Leu Pro Gly Met Val
 660

<210> 2259

<211> 297

<212> PRT

<213> Homo sapiens

<400> 2259

Met Pro Pro Ser Pro Thr Ala Pro Asn Gly Leu Val Asp Ser Val Thr
 1 5 10 15
 Tyr Pro Val Ser Pro Pro Pro Thr Ser Gly Pro Ala Ala Pro Pro Pro
 20 25 30
 Pro Pro Pro Leu Pro Ser Leu Ala Ser Leu Ser His Cys Gly Ser Gln
 35 40 45

Ala Ser Pro Pro Pro Ser Thr Pro Ile Ala Ser Thr Pro Ser Ser Lys
50 55 60
Pro Ser Val Leu Pro Ser Pro Ser Ala Ala Ala Pro Ala Ser Val Glu
65 70 75 80
Thr Pro Leu Pro Asn Gln Val Pro Pro Pro Pro Pro Pro Pro Pro Ala
85 90 95
Pro Pro Leu Pro Ala Ser Gly Phe Phe Leu Ala Ser Met Ser Glu Asp
100 105 110
Asn Arg Pro Leu Thr Gly Leu Ala Ala Ala Ile Ala Gly Ala Lys Leu
115 120 125
Arg Lys Val Ser Arg Met Glu Asp Thr Ser Phe Pro Ser Gly Gly Asn
130 135 140
Ala Ile Gly Val Asn Ser Ala Ser Ser Lys Thr Asp Thr Gly Arg Gly
145 150 155 160
Asn Gly Pro Leu Pro Leu Gly Gly Ser Gly Leu Met Glu Glu Met Ser
165 170 175
Ala Leu Leu Ala Arg Arg Arg Arg Ile Ala Glu Lys Gly Ser Thr Ile
180 185 190
Glu Thr Glu Gln Lys Glu Asp Lys Gly Glu Asp Ser Glu Pro Val Thr
195 200 205
Ser Lys Ala Ser Ser Thr Ser Thr Pro Glu Pro Thr Arg Lys Pro Trp
210 215 220
Glu Arg Thr Asn Thr Met Asn Gly Ser Lys Ser Pro Val Ile Ser Arg
225 230 235 240
Pro Lys Ser Thr Pro Leu Ser Gln Pro Ser Ala Asn Gly Val Gln Thr
245 250 255
Glu Gly Leu Asp Tyr Asp Arg Leu Lys Gln Asp Ile Leu Asp Glu Met
260 265 270
Arg Lys Glu Leu Thr Lys Leu Lys Glu Glu Leu Ile Asp Ala Ile Arg

275 280 285
Gln Glu Leu Ser Lys Ser Asn Thr Ala
290 295

<210> 2260

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2260

Met Pro His Arg Asp Thr Gln Leu Leu Val Ser Met Ala Thr Arg Arg
1 5 10 15
Pro Ser Leu Ser Ala Ser Val Gly Tyr Tyr Ser Asn Pro Gly Arg Asp
20 25 30
Lys Cys Thr Ala Asp Lys Gly Pro Ile Trp Arg Asn His Arg Gly His
35 40 45
Ile His Cys Cys Pro Leu Cys Gly Gln Leu Cys Ala Arg Ala Gln Ala
50 55 60
Val Cys Trp Glu Gly His Thr Ser Cys Leu Leu Gly Thr Asp Gly Arg
65 70 75 80
Ser Arg Ile Cys Leu Ser Val Ser Ser Ala Ser Cys Pro Leu Ala Ser
85 90 95
Pro Glu Met His Leu Gly Val Pro Ile His Ser Gln Gly Phe Ile Ser
100 105 110
His Asn Ser Tyr Ile Glu Asn Ile Gln Gly Cys Ile Val Asp Pro Ala
115 120 125
Leu Phe
130

<210> 2261

<211> 281

<212> PRT

<213> Homo sapiens

<400> 2261

Met Asn Gln Pro Gly Gly Ala Ala Ala Pro Gln Ala Asp Gly Ala Ser

1 5 10 15

Ala Ala Gly Arg Lys Ser Thr Ala Ser Arg Glu Arg Leu Lys Arg Ser

20 25 30

Gln Lys Ser Thr Lys Val Glu Gly Pro Glu Pro Val Pro Ala Glu Ala

35 40 45

Ser Leu Ser Ala Glu Gln Gly Thr Met Thr Glu Val Lys Val Lys Thr

50 55 60

Glu Leu Pro Asp Asp Tyr Ile Gln Glu Val Ile Trp Gln Gly Glu Ala

65 70 75 80

Lys Glu Glu Lys Lys Ala Val Ser Lys Asp Gly Thr Ser Asp Val Pro

85 90 95

Ala Glu Ile Cys Val Val Ile Gly Gly Val Arg Asn Gln Gln Thr Leu

100 105 110

Gly Ser Tyr Glu Cys Gly Ile Cys Gly Lys Lys Tyr Lys Tyr Tyr Asn

115 120 125

Cys Phe Gln Thr His Val Arg Ala His Arg Asp Thr Glu Ala Thr Ser

130 135 140

Gly Glu Gly Ala Ser Gln Ser Asn Asn Phe Arg Tyr Thr Cys Asp Ile

145 150 155 160

Cys Gly Lys Lys Tyr Lys Tyr Tyr Ser Cys Phe Gln Glu His Arg Asp

	165		170		175										
Leu	His	Ala	Val	Asp	Val	Phe	Ser	Val	Glu	Gly	Ala	Pro	Glu	Asn	Arg
	180		185		190										
Ala	Asp	Pro	Phe	Asp	Gln	Gly	Val	Val	Ala	Thr	Asp	Glu	Val	Lys	Glu
	195		200		205										
Glu	Pro	Pro	Glu	Pro	Phe	Gln	Lys	Ile	Gly	Pro	Lys	Thr	Gly	Asn	Tyr
	210		215		220										
Thr	Cys	Glu	Phe	Cys	Gly	Lys	Gln	Tyr	Lys	Tyr	Tyr	Thr	Pro	Tyr	Gln
	225		230		235		240								
Glu	His	Val	Ala	Leu	His	Ala	Pro	Ile	Ser	Glu	Tyr	Leu	Leu	Pro	Val
	245		250		255										
Gly	Met	Gly	Val	Gly	Gly	Pro	Gly	Thr	Gly	Trp	Ala	Ser	Arg	Trp	Pro
	260		265		270										
Gly	Leu	Trp	Asn	Leu	Ala	Arg	Lys	Trp							
	275		280												

<210> 2262

<211> 695

<212> PRT

<213> Homo sapiens

<400> 2262

Met	Gln	Asp	Val	Leu	Glu	Lys	Ser	Asp	His	Leu	Ile	Ala	Ala	Ala	Lys
1				5						10				15	
Glu	Leu	Phe	Pro	Arg	Arg	Arg	Thr	Gly	Phe	Pro	Asn	Val	Thr	Val	Ala
			20				25					30			
Pro	Asp	Ser	Ser	Gln	Gly	Pro	Ile	Val	Val	Asn	Gln	Asp	Pro	Ile	Thr
			35				40					45			

Gln Ser Ile Phe Asn Glu Ser Val Ile Glu Pro Gln Ala Leu Asn Asp
 50 55 60
 Val Asp Gly Glu Glu Glu Gly Thr Val Asn Ser Gln Ser Gly Glu Ser
 65 70 75 80
 Glu Asn Glu Asn Glu Leu Asp Asn Ser Leu Asn Ser Gln Ser Asn Thr
 85 90 95
 Asn Thr Asp Arg Phe Leu Gln Gln Leu Thr Glu Glu Asn Phe Glu Leu
 100 105 110
 Ile Ser Lys Leu Trp Thr Asp Ile Gln Gln Lys Ile Ala Thr Gln Ser
 115 120 125
 Gln Ile Thr Pro Pro Gly Thr Pro Ser Ser Ala Leu Ser Ser Gly Glu
 130 135 140
 Gln Arg Ala Ala Leu Asn Ala Thr Asn Ala Val Lys Arg Leu Gln Thr
 145 150 155 160
 Arg Leu Gln Pro Glu Glu Ser Thr Glu Thr Leu Asp Ser Ser Tyr Val
 165 170 175
 Val Gly His Val Leu Asn Ser Arg Lys Gln Lys Gln Leu Leu Asn Lys
 180 185 190
 Val Lys Arg Lys Pro Asn Leu His Ala Leu Ser Lys Pro Lys Lys Asn
 195 200 205
 Ile Ser Ser Gly Ser Thr Thr Ser Ala Asp Leu Pro Asn Arg Thr Asn
 210 215 220
 Ser Asn Leu Asp Val Leu Lys His Met Ile His Glu Val Glu His Glu
 225 230 235 240
 Met Glu Glu Tyr Glu Arg Trp Thr Gly Arg Glu Val Lys Gly Leu Gln
 245 250 255
 Ser Ser Gln Gly Leu Thr Gly Phe Thr Leu Ser Leu Val Ser Ser Leu
 260 265 270
 Cys Arg Leu Val Arg Tyr Leu Lys Glu Ser Glu Ile Gln Leu Arg Lys

275 280 285
Glu Val Glu Thr Arg Gln Gln Leu Glu Gln Val Leu Gly Asp His Arg
290 295 300
Glu Leu Ile Asp Ala Leu Thr Ala Glu Ile Leu Arg Leu Arg Glu Glu
305 310 315 320
Asn Ala Ala Thr Gln Ala Arg Leu Gln Gln Tyr Met Val Thr Thr Asp
325 330 335
Glu Gln Leu Ile Ser Leu Thr His Ala Ile Lys Asn Cys Pro Val Ile
340 345 350
Asn Asn Arg Gln Glu Ile Gln Ala Ser Glu Ser Gly Ala Thr Gly Arg
355 360 365
Arg Val Met Asp Ser Pro Glu Arg Pro Val Val Asn Ala Asn Val Ser
370 375 380
Val Pro Leu Met Phe Arg Glu Glu Val Ala Glu Phe Pro Gln Glu Glu
385 390 395 400
Leu Pro Val Lys Leu Ser Gln Val Pro Asp Pro Pro Asp Asn Met Asn
405 410 415
Leu Ala Lys Asn Phe Pro Ala His Ile Phe Glu Pro Ala Val Leu Leu
420 425 430
Thr Pro Pro Arg Gln Lys Ser Asn Leu Lys Phe Ser Pro Leu Gln Asp
435 440 445
Val Leu Arg Gly Thr Val Gln Thr Arg Pro Ala Pro Arg Leu Pro Pro
450 455 460
Thr Val Glu Ile Ile Glu Lys Glu Gln Asn Trp Glu Glu Lys Thr Leu
465 470 475 480
Pro Ile Asp Thr Asp Ile Gln Asn Ser Ser Glu Glu Asn Arg Leu Phe
485 490 495
Thr Gln Arg Trp Arg Val Ser His Met Gly Glu Asp Leu Glu Asn Lys
500 505 510

Thr Gln Ala Pro Phe Val Asn Leu Ser Gln Pro Leu Cys Asn Ser His
515 520 525

Ser Asn Thr Gln Gln Ser Arg Ser Pro Thr Phe Ser Glu Glu Leu Pro
530 535 540

Val Leu Gly Asp Gly Gln Gln Leu Arg Thr Asn Glu Ser Leu Ile Gln
545 550 555 560

Arg Lys Asp Ile Met Thr Arg Ile Ala Gly Leu Thr Leu Gln Asn Ser
565 570 575

Ala Ile Lys Ala His Met Asn Asn Ile Ile Glu Pro Arg Gly Glu Gln
580 585 590

Gly Asp Gly Leu Arg Glu Leu Asn Lys Gln Glu Ser Ala Ser Asp Met
595 600 605

Thr Ser Thr Phe Pro Val Ala Gln Ser Leu Thr Pro Gly Ser Met Glu
610 615 620

Glu Arg Ile Ala Glu Leu Asn Arg Gln Ser Met Glu Ala Arg Gly Lys
625 630 635 640

Leu Leu Gln Leu Ile Glu Gln Gln Lys Leu Val Gly Leu Asn Leu Ser
645 650 655

Pro Pro Met Ser Pro Val Gln Leu Pro Leu Arg Ala Trp Thr Gly Trp
660 665 670

Ser Gln Thr His Asp Leu Lys Thr Arg Asn Met Lys Val Phe Ser Phe
675 680 685

Leu Asp Phe Ala Ser Leu Tyr
690 695

<210> 2263

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2263

Met Val Phe Gly Leu Leu Leu Gly Gly Lys Glu Phe Asn Glu Arg Phe
 1 5 10 15
 Lys Glu Lys Leu Pro Ala Pro Ile Pro Leu Glu Phe Phe Ala Val Val
 20 25 30
 Met Gly Thr Gly Ile Ser Ala Gly Phe Asn Leu Lys Glu Ser Tyr Asn
 35 40 45
 Val Asp Val Val Gly Thr Leu Pro Leu Gly Leu Leu Pro Pro Ala Asn
 50 55 60
 Pro Asp Thr Ser Leu Phe His Leu Val Tyr Val Asp Ala Ile Ala Ile
 65 70 75 80
 Ala Ile Val Gly Phe Ser Val Thr Ile Ser Met Ala Lys Thr Leu Ala
 85 90 95
 Asn Lys His Gly Tyr Gln Val Asp Gly Asn Gln Glu Leu Ile Ala Leu
 100 105 110
 Gly Leu Cys Asn Ser Ile Gly Ser Leu Phe Gln Thr Phe Ser Ile Ser
 115 120 125
 Cys Ser Leu Ser Arg Ser Leu Val Gln Glu Gly Thr Gly Gly Lys Thr
 130 135 140
 Gln Leu Ala Gly Cys Leu Ala Ser Leu Met Ile Leu Leu Val Ile Leu
 145 150 155 160
 Ala Thr Gly Phe Leu Phe Glu Ser Leu Pro Gln Ala Val Leu Ser Ala
 165 170 175
 Ile Val Ile Val Asn Leu Lys Gly Met Phe Met Gln Phe Ser Asp Leu
 180 185 190
 Pro Phe Phe Trp Arg Thr Ser Lys Ile Glu Leu Thr Ile Trp Leu Thr
 195 200 205

Ile Phe Val Ser Ser Leu Phe Leu Gly Leu Asp Tyr Gly Leu Ile Thr
 210 215 220
 Ala Val Ile Ile Ala Leu Leu Thr Val Ile Tyr Arg Thr Gln Arg
 225 230 235

<210> 2264

<211> 332

<212> PRT

<213> Homo sapiens

<400> 2264

Met Ser Phe Leu Asp Ala Leu Glu Thr Gly Tyr Gly Lys Tyr Lys Asn
 1 5 10 15
 Pro Tyr His Asn Gln Ile His Ala Ala Asp Val Thr Gln Thr Val His
 20 25 30
 Cys Phe Leu Leu Arg Thr Gly Met Val His Cys Leu Ser Glu Ile Glu
 35 40 45
 Leu Leu Ala Ile Ile Phe Ala Ala Ala Ile His Asp Tyr Glu His Thr
 50 55 60
 Gly Thr Thr Asn Ser Phe His Ile Gln Thr Lys Ser Glu Cys Ala Ile
 65 70 75 80
 Val Tyr Asn Asp Arg Ser Val Leu Glu Asn His His Ile Ser Ser Val
 85 90 95
 Phe Arg Leu Met Gln Asp Asp Glu Met Asn Ile Phe Ile Asn Leu Thr
 100 105 110
 Lys Asp Glu Phe Val Glu Leu Arg Ala Leu Val Ile Glu Met Val Leu
 115 120 125
 Ala Thr Asp Met Ser Cys His Phe Gln Gln Val Lys Thr Met Lys Thr

130	135	140
Ala Leu Gln Gln Leu Glu Arg Ile Asp Lys Pro Lys Ala Leu Ser Leu		
145	150	155
160		
Leu Leu His Ala Ala Asp Ile Ser His Pro Thr Lys Gln Trp Leu Val		
165	170	175
His Ser Arg Trp Thr Lys Ala Leu Met Glu Glu Phe Phe Arg Gln Gly		
180	185	190
Asp Lys Glu Ala Glu Leu Gly Leu Pro Phe Ser Pro Leu Cys Asp Arg		
195	200	205
Thr Ser Thr Leu Val Ala Gln Ser Gln Ile Gly Phe Ile Asp Phe Ile		
210	215	220
Val Glu Pro Thr Phe Ser Val Leu Thr Asp Val Ala Glu Lys Ser Val		
225	230	235
240		
Gln Pro Leu Ala Asp Glu Asp Ser Lys Ser Lys Asn Gln Pro Ser Phe		
245	250	255
Gln Trp Arg Gln Pro Ser Leu Asp Val Glu Val Gly Asp Pro Asn Pro		
260	265	270
Asp Val Val Ser Phe Arg Ser Thr Trp Val Lys Arg Ile Gln Glu Asn		
275	280	285
Lys Gln Lys Trp Lys Glu Arg Ala Ala Ser Gly Ile Thr Asn Gln Met		
290	295	300
Ser Ile Asp Glu Leu Ser Pro Cys Glu Glu Glu Ala Pro Pro Ser Pro		
305	310	315
320		
Ala Glu Asp Glu His Asn Gln Asn Gly Asn Leu Asp		
325	330	

<210> 2265

<211> 329

<212> PRT

<213> Homo sapiens

<400> 2265

Met	Leu	Pro	Trp	Arg	Arg	Asn	Lys	Phe	Val	Leu	Val	Glu	Asp	Glu	Ala
1				5					10					15	
Lys	Cys	Lys	Ala	Lys	Ser	Leu	Ser	Pro	Gly	Leu	Ala	Tyr	Thr	Ser	Leu
			20					25						30	
Leu	Ser	Ser	Phe	Leu	Arg	Ser	Cys	Pro	Asp	Leu	Leu	Pro	Asp	Trp	Pro
			35				40						45		
Leu	Glu	Arg	Leu	Gly	Arg	Val	Phe	Arg	Ser	Arg	Arg	Gln	Lys	Val	Glu
	50					55						60			
Leu	Asn	Lys	Glu	Asp	Pro	Thr	Tyr	Thr	Val	Trp	Tyr	Leu	Gly	Asn	Ala
	65				70					75				80	
Val	Thr	Leu	His	Ala	Lys	Gly	Asp	Gly	Cys	Thr	Asp	Asp	Ala	Val	Gly
			85					90						95	
Lys	Ile	Trp	Ala	Arg	Cys	Gly	Pro	Gly	Gly	Gly	Thr	Lys	Met	Lys	Leu
			100					105						110	
Thr	Leu	Gly	Pro	His	Gly	Ile	Arg	Met	Gln	Pro	Cys	Glu	Arg	Ser	Ala
			115					120						125	
Ala	Gly	Gly	Ser	Gly	Gly	Arg	Arg	Pro	Ala	His	Ala	Tyr	Leu	Leu	Pro
			130				135						140		
Arg	Ile	Thr	Tyr	Cys	Thr	Ala	Asp	Gly	Arg	His	Pro	Arg	Val	Phe	Ala
	145					150				155				160	
Trp	Val	Tyr	Arg	His	Gln	Ala	Arg	His	Lys	Ala	Val	Val	Leu	Arg	Cys
					165				170					175	
His	Ala	Val	Leu	Leu	Ala	Arg	Ala	His	Lys	Ala	Arg	Ala	Leu	Ala	Arg
			180					185						190	
Leu	Leu	Arg	Gln	Thr	Ala	Leu	Ala	Ala	Phe	Ser	Asp	Phe	Lys	Arg	Leu

195 200 205
 Gln Arg Gln Ser Asp Ala Arg His Val Arg Gln Gln His Leu Arg Ala
 210 215 220
 Gly Gly Ala Ala Ala Ser Val Pro Arg Ala Pro Leu Arg Arg Leu Leu
 225 230 235 240
 Asn Ala Lys Cys Ala Tyr Arg Pro Pro Pro Ser Glu Arg Ser Arg Gly
 245 250 255
 Ala Pro Arg Leu Ser Ser Ile Gln Glu Glu Asp Glu Glu Glu Glu Glu
 260 265 270
 Asp Asp Ala Glu Glu Gln Glu Gly Gly Val Pro Gln Arg Glu Arg Pro
 275 280 285
 Glu Val Leu Ser Leu Ala Arg Glu Leu Arg Thr Cys Ser Leu Arg Gly
 290 295 300
 Ala Pro Ala Pro Pro Pro Pro Ala Gln Pro Arg Arg Trp Lys Ala Gly
 305 310 315 320
 Pro Arg Glu Arg Ala Gly Gln Ala Arg
 325

<210> 2266

<211> 247

<212> PRT

<213> Homo sapiens

<400> 2266

Met Leu Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Ala Leu Phe Ser
 1 5 10 15
 Val Leu Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Glu Leu Phe Pro
 20 25 30

Val Leu Phe Pro Met Leu Phe Pro Ala Leu Leu Pro Ala Leu Phe His
 35 40 45
 Met Leu Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Ala Leu Phe Ser
 50 55 60
 Ala Pro Phe Pro Met Arg Ser Leu His Cys Ser Leu His Cys Ser Pro
 65 70 75 80
 Cys Cys Ser Leu Arg Cys Ser Pro Cys Cys Ser Leu His Cys Ser Pro
 85 90 95
 Cys Cys Ser Leu Arg Cys Ser Pro Cys Cys Ser Leu Arg Cys Ser Pro
 100 105 110
 Cys Cys Ser Leu His Cys Ser Pro Cys Cys Ser Leu Gln Cys Ser Leu
 115 120 125
 His Cys Ser Pro His Cys Ser Leu His Cys Ser Pro Cys Cys Phe Leu
 130 135 140
 His Arg Ser Pro Cys Cys Ser Leu Gln Gly Ser Leu His Cys Ser Pro
 145 150 155 160
 Cys Cys Phe Leu His Arg Ser Pro Cys Cys Ser Leu Gln Gly Ser Leu
 165 170 175
 His Cys Ser Pro Cys Cys Ser Leu His Ile Ser Cys Pro Arg Pro Ser
 180 185 190
 His Ser Pro Thr Asn Thr Leu Asp His Pro Ser Lys Ala Ser Val Val
 195 200 205
 Ser Pro Thr Thr Gln Val Leu Gly Leu Gly Trp Gly Arg Met Glu Leu
 210 215 220
 Asp Pro Ala Asp Pro Gly Leu Arg Gly Pro Ser Pro Ser Asp Val Ser
 225 230 235 240
 Pro Asn Ala Met Ala Gly Ser
 245

<210> 2267

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2267

Met Ala Leu Thr Lys Met Leu Ile Met Ile Trp Thr Met Lys Ser Arg

1 5 10 15

Leu Ser Trp Ser Gln Met Glu Met Arg Asn Leu Leu Gly Ile Gly Ala

20 25 30

Lys Val Thr Arg Tyr Val Leu Ala Lys Arg Leu Val Ala Phe Cys Pro

35 40 45

Cys Pro Lys Asp Leu Trp Asn Phe Glu Leu Glu Arg Asp Asp Leu Gly

50 55 60

Tyr Leu Val Glu Glu Val Ser Lys Gln Gln Ser Ile Gln Glu Val Thr

65 70 75 80

Trp Val Leu Leu Lys Ala Phe Ser Phe Ile Arg Glu Ala Glu His Lys

85 90 95

Arg Leu Glu Asn Leu Gln Pro Asp Asn Val Ile Glu Lys Lys Ile Leu

100 105 110

Phe Ser Glu Glu Lys Phe Lys Leu Ala Ala Lys Ile Trp Ile Ser Asn

115 120 125

Glu Glu Leu Asn Ile Asn Pro Gln Asp Asn Gly Glu Asn Val Cys Arg

130 135 140

Ala Cys Gln Arg Ser Ser Gln Gln Leu Leu Leu Ser Gln Ala Trp Arg

145 150 155 160

Pro Arg Arg Lys Lys Trp Phe His Gly Leu Gly Pro Arg Pro Pro Cys

165 170 175

Ser Val Gln Pro Lys Asp Leu Val Pro Cys Val Pro Ala Thr Pro Ala
180 185 190
Met Ala Lys Arg Gly Gln Gly Thr Val
195 200

<210> 2268

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2268

Met Met Gly Val Gly Arg Cys Thr Ala Ala Met Gly Ser Glu Leu Glu
1 5 10 15
Thr Ala Met Glu Thr Leu Ile Asn Val Phe His Ala His Ser Gly Lys
20 25 30
Glu Gly Asp Lys Tyr Lys Leu Ser Lys Lys Glu Leu Lys Glu Leu Leu
35 40 45
Gln Thr Glu Leu Ser Gly Phe Leu Asp Ala Gln Lys Asp Val Asp Ala
50 55 60
Val Asp Lys Val Met Lys Glu Leu Asp Glu Asn Gly Asp Gly Glu Val
65 70 75 80
Asp Phe Gln Glu Tyr Val Val Leu Val Ala Ala Leu Thr Val Ala Cys
85 90 95
Asn Asn Phe Phe Trp Glu Asn Ser
100

<210> 2269

<211> 1014

<212> PRT

<213> Homo sapiens

<400> 2269

Met Glu Glu Leu Arg Leu Thr Ser Thr Thr Phe Ala Leu Thr Gly Asp

1 5 10 15

Ser Ala His Asn Gln Ala Met Val His Trp Ser Gly His Asn Ser Ser

20 25 30

Val Ile Leu Ile Leu Thr Lys Leu Tyr Asp Tyr Asn Leu Gly Ser Ile

35 40 45

Thr Glu Ser Ser Leu Trp Arg Ser Thr Asp Tyr Gly Thr Thr Tyr Glu

50 55 60

Lys Leu Asn Asp Lys Val Gly Leu Lys Thr Ile Leu Ser Tyr Leu Tyr

65 70 75 80

Val Cys Pro Thr Asn Lys Arg Lys Ile Met Leu Leu Thr Asp Pro Glu

85 90 95

Ile Glu Ser Ser Leu Leu Ile Ser Ser Asp Glu Gly Ala Thr Tyr Gln

100 105 110

Lys Tyr Arg Leu Asn Phe Tyr Ile Gln Ser Leu Leu Phe His Pro Lys

115 120 125

Gln Glu Asp Trp Ile Leu Ala Tyr Ser Gln Asp Gln Lys Leu Tyr Ser

130 135 140

Ser Ala Glu Phe Gly Arg Arg Trp Gln Leu Ile Gln Glu Gly Val Val

145 150 155 160

Pro Asn Arg Phe Tyr Trp Ser Val Met Gly Ser Asn Lys Glu Pro Asp

165 170 175

Leu Val His Leu Glu Ala Arg Thr Val Asp Gly His Ser His Tyr Leu

180 185 190

Thr Cys Arg Met Gln Asn Cys Thr Glu Ala Asn Arg Asn Gln Pro Phe
195 200 205
Pro Gly Tyr Ile Asp Pro Asp Ser Leu Ile Val Gln Asp His Tyr Val
210 215 220
Phe Val Gln Leu Thr Ser Gly Gly Arg Pro His Tyr Tyr Val Ser Tyr
225 230 235 240
Arg Arg Asn Ala Phe Ala Gln Met Lys Leu Pro Lys Tyr Ala Leu Pro
245 250 255
Lys Asp Met His Val Ile Ser Thr Asp Glu Asn Gln Val Phe Ala Ala
260 265 270
Val Gln Glu Trp Asn Gln Asn Asp Thr Tyr Asn Leu Tyr Ile Ser Asp
275 280 285
Thr Arg Gly Val Tyr Phe Thr Leu Ala Leu Glu Asn Val Gln Ser Ser
290 295 300
Arg Gly Pro Glu Gly Asn Ile Met Ile Asp Leu Tyr Glu Val Ala Gly
305 310 315 320
Ile Lys Gly Met Phe Leu Ala Asn Lys Lys Ile Asp Asn Gln Val Lys
325 330 335
Thr Phe Ile Thr Tyr Asn Lys Gly Arg Asp Trp Arg Leu Leu Gln Ala
340 345 350
Pro Asp Thr Asp Leu Arg Gly Asp Pro Val His Cys Leu Leu Pro Tyr
355 360 365
Cys Ser Leu His Leu His Leu Lys Val Ser Glu Asn Pro Tyr Thr Ser
370 375 380
Gly Ile Ile Ala Ser Lys Asp Thr Ala Pro Ser Ile Ile Val Ala Ser
385 390 395 400
Gly Asn Ile Gly Ser Glu Leu Ser Asp Thr Asp Ile Ser Met Phe Val
405 410 415
Ser Ser Asp Ala Gly Asn Thr Trp Arg Gln Ile Phe Glu Glu Glu His

420	425	430
Ser Val Leu Tyr Leu Asp Gln Gly Gly Val Leu Val Ala Met Lys His		
435	440	445
Thr Ser Leu Pro Ile Arg His Leu Trp Leu Ser Phe Asp Glu Gly Arg		
450	455	460
Ser Trp Ser Lys Tyr Ser Phe Thr Ser Ile Pro Leu Phe Val Asp Gly		
465	470	475
Val Leu Gly Glu Pro Gly Glu Glu Thr Leu Ile Met Thr Val Phe Gly		
485	490	495
His Phe Ser His Arg Ser Glu Trp Gln Leu Val Lys Val Asp Tyr Lys		
500	505	510
Ser Ile Phe Asp Arg Arg Cys Ala Glu Glu Asp Tyr Arg Pro Trp Gln		
515	520	525
Leu His Ser Gln Gly Glu Ala Cys Ile Met Gly Ala Lys Arg Ile Tyr		
530	535	540
Lys Lys Arg Lys Ser Glu Arg Lys Cys Met Gln Gly Lys Tyr Ala Gly		
545	550	555
Ala Met Glu Ser Glu Pro Cys Val Cys Thr Glu Ala Asp Phe Asp Cys		
565	570	575
Asp Tyr Gly Tyr Glu Arg His Ser Asn Gly Gln Cys Leu Pro Ala Phe		
580	585	590
Trp Phe Asn Pro Ser Ser Leu Ser Lys Asp Cys Ser Leu Gly Gln Ser		
595	600	605
Tyr Leu Asn Ser Thr Gly Tyr Arg Lys Val Val Ser Asn Asn Cys Thr		
610	615	620
Asp Gly Val Arg Glu Gln Tyr Thr Ala Lys Pro Gln Lys Cys Pro Gly		
625	630	635
Lys Ala Pro Arg Gly Leu Arg Ile Val Thr Ala Asp Gly Lys Leu Thr		
645	650	655

Ala Glu Gln Gly His Asn Val Thr Leu Met Val Gln Leu Glu Glu Gly
660 665 670
Asp Val Gln Arg Thr Leu Ile Gln Val Asp Phe Gly Asp Gly Ile Ala
675 680 685
Val Ser Tyr Val Asn Leu Ser Ser Met Glu Asp Gly Ile Lys His Val
690 695 700
Tyr Gln Asn Val Gly Ile Phe Arg Val Thr Val Gln Val Asp Asn Ser
705 710 715 720
Leu Gly Ser Asp Ser Ala Val Leu Tyr Leu His Val Thr Cys Pro Leu
725 730 735
Glu His Val His Leu Ser Leu Pro Phe Val Thr Thr Lys Asn Lys Glu
740 745 750
Val Asn Ala Thr Ala Val Leu Trp Pro Ser Gln Val Gly Thr Leu Thr
755 760 765
Tyr Val Trp Trp Tyr Gly Asn Asn Thr Glu Pro Leu Ile Thr Leu Glu
770 775 780
Gly Ser Ile Ser Phe Arg Phe Thr Ser Glu Gly Met Asn Thr Ile Thr
785 790 795 800
Val Gln Val Ser Ala Gly Asn Ala Ile Leu Gln Asp Thr Lys Thr Ile
805 810 815
Ala Val Tyr Glu Glu Phe Arg Ser Leu Arg Leu Ser Phe Ser Pro Asn
820 825 830
Leu Asp Asp Cys Asn Pro Asp Ile Pro Glu Trp Arg Arg Asp Ile Gly
835 840 845
Arg Val Ile Lys Lys Ser Leu Val Glu Ala Thr Gly Val Pro Gly Gln
850 855 860
His Ile Leu Val Ala Val Leu Pro Gly Leu Pro Thr Thr Ala Glu Leu
865 870 875 880
Phe Val Leu Pro Tyr Gln Asp Pro Ala Gly Glu Asn Lys Arg Ser Thr

885	890	895
Asp Asp Leu Glu Gln Ile Ser Glu Leu Leu Ile His Thr Leu Asn Gln		
900	905	910
Asn Ser Val His Phe Glu Leu Lys Pro Gly Val Arg Val Leu Val His		
915	920	925
Ala Ala His Leu Thr Ala Ala Pro Leu Val Asp Leu Thr Pro Thr His		
930	935	940
Ser Gly Ser Ala Met Leu Met Leu Leu Ser Val Val Phe Val Gly Leu		
945	950	955
960		
Ala Val Phe Val Ile Tyr Lys Phe Lys Arg Arg Val Ala Leu Pro Ser		
965	970	975
Pro Pro Ser Pro Ser Thr Gln Pro Gly Asp Ser Ser Leu Arg Leu Gln		
980	985	990
Arg Ala Arg His Ala Thr Pro Pro Ser Thr Pro Lys Arg Gly Ser Ala		
995	1000	1005
Gly Ala Gln Tyr Ala Ile		
1010		

<210> 2270

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2270

Met Leu Met Tyr Gln Leu Phe Phe Asn Ala Ala Leu Leu Cys Asn Lys
1 5 10 15
Gln Pro Gln Ala Leu Ser Gly Ile Asp Ser Glu Tyr Thr Met Leu Leu
20 25 30

Cys Leu Gly Gly Gln Gly Ala Thr Leu Ile Trp Thr Glu Pro Ala Gln
 35 40 45
 Tyr Leu Trp Val Ile Trp Leu Pro Ala Gly Val Thr Gly Ala Thr Arg
 50 55 60
 Leu Cys Ser Val Cys Leu Ser Ser Phe Ile Thr Leu Ala Gln Ala Cys
 65 70 75 80
 Phe His Gly Asp Pro Glu Val Gln Glu Arg Thr Ser Leu Ile Ala Gln
 85 90 95
 Ala Leu Phe Lys Pro Leu Leu Val Pro Trp Val Leu Ala Ser His Trp
 100 105 110
 Pro Lys Gln Val Met Trp Pro Arg Pro Gly Val Lys Asn Trp Gly Pro
 115 120 125
 Phe Ala Met Leu Leu Val Asp Thr Gly Thr
 130 135

<210> 2271

<211> 204

<212> PRT

<213> Homo sapiens

<400> 2271

Met Ser His Arg Ala Arg Ser Arg Ile Ser Phe Leu Phe Leu Glu Pro
 1 5 10 15
 Ser Ser Cys Pro Ser Thr Ser Phe Leu His Asn Phe Thr Cys Phe Pro
 20 25 30
 Trp Asn Pro Cys Ser Val Arg Ser Asn Leu Asn Ser Pro Phe Leu Asp
 35 40 45
 Val Phe Phe Leu Ser Met Lys Leu His Ser Val Leu Leu Asn Ser Lys

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Thr Val Ala Thr Val Leu Pro Ser Asn Ala Thr Glu Pro Ala Ser Pro
 20 25 30
 Gly Glu Gly Lys Glu Asp Ala Phe Ser Lys Leu Lys Glu Lys Phe Met
 35 40 45
 Asn Glu Leu His Lys Ile Pro Leu Pro Pro Trp Ala Leu Ile Ala Ile
 50 55 60
 Ala Ile Val Ala Val Leu Leu Val Leu Thr Cys Cys Phe Cys Ile Cys
 65 70 75 80
 Lys Lys Cys Leu Phe Lys Lys Lys Asn Lys Lys Lys Gly Lys Glu Lys
 85 90 95
 Gly Gly Lys Asn Ala Ile Asn Met Lys Asp Val Lys Asp Leu Gly Lys
 100 105 110
 Thr Met Lys Asp Gln Ala Leu Lys Asp Asp Asp Ala Glu Thr Gly Leu
 115 120 125
 Thr Asp Gly Glu Glu Lys Glu Glu Pro Lys Glu Glu Glu Lys Leu Gly
 130 135 140
 Lys Leu Gln Tyr Ser Leu Asp Tyr Asp Phe Gln Asn Asn Gln Leu Leu
 145 150 155 160
 Val Gly Ile Ile Gln Ala Ala Glu Leu Pro Ala Leu Asp Met Gly Gly
 165 170 175
 Thr Ser Asp Pro Tyr Val Lys Val Phe Leu Leu Pro Asp Lys Lys Lys
 180 185 190
 Lys Phe Glu Thr Lys Val His Arg Lys Thr Leu Asn Pro Val Phe Asn
 195 200 205
 Glu Gln Phe Thr Phe Lys Val Pro Tyr Ser Glu Leu Gly Gly Lys Thr
 210 215 220
 Leu Val Met Ala Val Tyr Asp Phe Asp Arg Phe Ser Lys His Asp Ile
 225 230 235 240
 Ile Gly Glu Phe Lys Val Pro Met Asn Thr Val Asp Phe Gly His Val

245 250 255
Thr Glu Glu Trp Arg Asp Leu Gln Ser Ala Glu Lys Glu Glu Gln Glu
260 265 270
Lys Leu Gly Asp Ile Cys Phe Ser Leu Arg Tyr Val Pro Thr Ala Gly
275 280 285
Lys Leu Thr Val Val Ile Leu Glu Ala Lys Asn Leu Lys Lys Met Asp
290 295 300
Val Gly Gly Leu Ser Asp Pro Tyr Val Lys Ile His Leu Met Gln Asn
305 310 315 320
Gly Lys Arg Leu Lys Lys Lys Lys Thr Thr Ile Lys Lys Asn Thr Leu
325 330 335
Asn Pro Tyr Tyr Asn Glu Ser Phe Ser Phe Glu Val Pro Phe Glu Gln
340 345 350
Ile Gln Lys Val Gln Val Val Val Thr Val Leu Asp Tyr Asp Lys Ile
355 360 365
Gly Lys Asn Asp Ala Ile Gly Lys Val Phe Val Gly Tyr Asn Ser Thr
370 375 380
Gly Ala Glu Leu Arg His Trp Ser Asp Met Leu Ala Asn Pro Arg Arg
385 390 395 400
Pro Ile Ala Gln Trp His Thr Leu Gln Val Glu Glu Glu Val Asp Ala
405 410 415
Met Leu Ala Val Lys Lys
420

<210> 2273

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2273

Met Gly Leu Gln Cys Cys Gly Arg Gly Gly Ala Gly Gly Cys Gln Gly
 1 5 10 15
 Met Asp Ser Cys Leu Tyr Gln Pro Gly Leu Thr Val Val Thr Leu Gln
 20 25 30
 Asp Ile Asn Val Pro Ser Ala Ala Lys Thr Ser Trp Val Trp Arg Gly
 35 40 45
 Leu Gly Ser His Thr Leu Val Phe Thr Arg Trp Ser Pro Thr Pro Glu
 50 55 60
 Gly Thr Met Arg Pro Thr Leu Gln Cys Glu Asp Thr Thr Cys Val Leu
 65 70 75 80
 Met Gly Pro Thr Pro Thr Trp Val Gln Gly Arg Tyr Ser Ala Asn Ser
 85 90 95
 Glu Trp Thr Pro Gly Ser Trp Leu Leu
 100 105

<210> 2274

<211> 199

<212> PRT

<213> Homo sapiens

<400> 2274

Met Leu Ser Leu Glu Glu Thr Glu Ala Gly Glu Glu Gly Ser Arg Ile
 1 5 10 15
 Thr Leu Pro Gly Gly Gly Gly Cys Arg Arg Gly Asp Phe Pro Trp Asp
 20 25 30
 Asp Glu Asp Phe Arg Ser Leu Ala Leu Leu Gly Ala Gly Val Ala Met

35 40 45
 Gly Phe Phe Tyr Leu Tyr Phe Arg Asp Pro Gly Arg Glu Ile Thr Trp
 50 55 60
 Lys His Phe Val Gln Tyr Tyr Leu Ala Arg Gly Leu Val Asp Arg Leu
 65 70 75 80
 Glu Val Val Asn Lys Gln Ser Val Arg Val Ile Pro Ala Pro Gly Thr
 85 90 95
 Ser Ser Glu Gly Ala Met Leu Thr Gly Pro Pro Gly Thr Gly Lys Thr
 100 105 110
 Leu Leu Ala Lys Ala Thr Ala Gly Glu Ala Thr Val Pro Phe Ile Thr
 115 120 125
 Val Asn Gly Ser Glu Phe Leu Glu Met Phe Ile Gly Val Gly Pro Ala
 130 135 140
 Arg Gly Ser Thr Leu Pro Pro Thr Ser Trp Cys Trp Leu Ala Pro Thr
 145 150 155 160
 Ala Leu Thr Ser Trp Thr Arg Pro Ser Cys Gly Leu Ala Gly Phe Ile
 165 170 175
 Ala Arg Phe Thr Leu Val Pro Leu Thr Leu Lys Ala Gly Pro Pro Ser
 180 185 190
 Leu Arg Ser Thr Cys Ala His
 195

<210> 2275

<211> 629

<212> PRT

<213> Homo sapiens

<400> 2275

Met Phe Arg Thr Ala Val Met Met Ala Ala Ser Leu Ala Leu Thr Arg
 1 5 10 15
 Ala Val Val Ala His Ala Tyr Tyr Leu Lys His Gln Phe Tyr Pro Thr
 20 25 30
 Val Val Tyr Leu Thr Lys Ser Ser Pro Ser Met Ala Val Leu Tyr Ile
 35 40 45
 Gln Ala Phe Val Leu Val Phe Leu Leu Gly Lys Val Met Gly Lys Val
 50 55 60
 Phe Phe Gly Gln Leu Arg Ala Ala Glu Met Glu His Leu Leu Glu Arg
 65 70 75 80
 Ser Trp Tyr Ala Val Thr Glu Thr Cys Leu Ala Phe Thr Val Phe Arg
 85 90 95
 Asp Asp Phe Ser Pro Arg Phe Val Ala Leu Phe Thr Leu Leu Leu Phe
 100 105 110
 Leu Lys Cys Phe His Trp Leu Ala Glu Asp Arg Val Asp Phe Met Glu
 115 120 125
 Arg Ser Pro Asn Ile Ser Trp Leu Phe His Cys Arg Ile Val Ser Leu
 130 135 140
 Met Phe Leu Leu Gly Ile Leu Asp Phe Leu Phe Val Ser His Ala Tyr
 145 150 155 160
 His Ser Ile Leu Thr Arg Gly Ala Ser Val Gln Leu Val Phe Gly Phe
 165 170 175
 Glu Tyr Ala Ile Leu Met Thr Met Val Leu Thr Ile Phe Ile Lys Tyr
 180 185 190
 Val Leu His Ser Val Asp Leu Gln Ser Glu Asn Pro Trp Asp Asn Lys
 195 200 205
 Ala Val Tyr Met Leu Tyr Thr Glu Leu Phe Thr Gly Phe Ile Lys Val
 210 215 220
 Leu Leu Tyr Met Ala Phe Met Thr Ile Met Ile Lys Val His Thr Phe

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Leu Pro Pro Pro Phe Ala Phe Pro Pro Met Pro Val Pro Pro Ala Gly
465 470 475 480
Phe Ala Gly Leu Thr Pro Glu Glu Leu Arg Ala Leu Glu Gly His Glu
485 490 495
Arg Gln His Leu Glu Ala Arg Leu Gln Ser Leu Arg Asn Ile His Thr
500 505 510
Leu Leu Asp Ala Ala Met Leu Gln Ile Asn Gln Tyr Leu Thr Val Leu
515 520 525
Ala Ser Leu Gly Pro Pro Gly Leu Pro Leu Gln Ser Thr Pro Leu Arg
530 535 540
Arg Leu Pro Leu Gln Leu Leu Leu Leu Pro Pro Pro Pro Ala Ser Leu
545 550 555 560
Ala Gln Arg Pro Arg Pro Gln Pro Gln Glu Pro Pro His Gln Pro Leu
565 570 575
Lys Trp Lys Gly Leu Gln Leu Leu Ser Gln Trp Ala Gln Arg Arg Cys
580 585 590
Leu Arg Met Glu Ser Pro Met Gln Gln Ser Ser Ala Gly Ala Ala Cys
595 600 605
Arg Ser Trp Ser Leu Leu Leu Pro Thr Asp Thr Ala Pro Ala Gln Pro
610 615 620
Gln Pro Leu Leu Phe
625

<210> 2276

<211> 347

<212> PRT

<213> Homo sapiens

<400> 2276

Met	Lys	Leu	Thr	Ser	Glu	Lys	Leu	Pro	Lys	Asn	Pro	Phe	Tyr	Ala	Ser
1				5					10					15	
Val	Ser	Gln	Tyr	Ala	Ala	Lys	Asn	Gln	Lys	Phe	Phe	Gln	Trp	Lys	Lys
				20				25					30		
Glu	Lys	Thr	Asp	Tyr	Thr	His	Ala	Asn	Leu	Val	Asp	Lys	Ala	Leu	Gln
				35			40					45			
Leu	Leu	Lys	Glu	Arg	Ile	Leu	Lys	Gly	Asp	Thr	Leu	Ala	Tyr	Phe	Leu
				50			55				60				
Arg	Gly	Gln	Leu	Tyr	Phe	Glu	Glu	Gly	Trp	Tyr	Glu	Glu	Ala	Leu	Glu
				65			70				75			80	
Gln	Phe	Glu	Glu	Ile	Lys	Glu	Lys	Asp	His	Gln	Ala	Thr	Tyr	Gln	Leu
				85				90						95	
Gly	Val	Met	Tyr	Tyr	Asp	Gly	Leu	Gly	Thr	Thr	Leu	Asp	Ala	Glu	Lys
				100				105					110		
Gly	Val	Asp	Tyr	Met	Lys	Lys	Ile	Leu	Asp	Ser	Pro	Cys	Pro	Lys	Ala
				115			120						125		
Arg	His	Leu	Lys	Phe	Ala	Ala	Ala	Tyr	Asn	Leu	Gly	Arg	Ala	Tyr	Tyr
				130			135					140			
Glu	Gly	Lys	Gly	Val	Lys	Arg	Ser	Asn	Glu	Glu	Ala	Glu	Arg	Leu	Trp
				145			150				155			160	
Leu	Ile	Ala	Ala	Asp	Asn	Gly	Asn	Pro	Lys	Ala	Ser	Val	Lys	Ala	Gln
				165				170						175	
Ser	Met	Leu	Gly	Leu	Tyr	Tyr	Ser	Thr	Lys	Glu	Pro	Lys	Glu	Leu	Glu
				180				185					190		
Lys	Ala	Phe	Tyr	Trp	His	Ser	Glu	Ala	Cys	Gly	Asn	Gly	Asn	Leu	Glu
				195			200						205		
Ser	Gln	Gly	Ala	Leu	Gly	Leu	Met	Tyr	Leu	Tyr	Gly	Gln	Gly	Ile	Arg
				210			215						220		

Gln Asp Thr Glu Ala Ala Leu Gln Cys Leu Arg Glu Ala Ala Glu Arg
 225 230 235 240
 Gly Asn Val Tyr Ala Gln Gly Asn Leu Val Glu Tyr Tyr Tyr Lys Met
 245 250 255
 Lys Phe Phe Thr Lys Cys Val Ala Phe Ser Lys Arg Ile Ala Asp Tyr
 260 265 270
 Asp Glu Val His Asp Ile Pro Met Ile Ala Gln Val Thr Asp Cys Leu
 275 280 285
 Pro Glu Phe Ile Gly Arg Gly Met Ala Met Ala Ser Phe Tyr His Ala
 290 295 300
 Arg Cys Leu Gln Leu Gly Leu Gly Ile Thr Arg Asp Glu Thr Thr Ala
 305 310 315 320
 Lys His Tyr Tyr Ser Lys Ala Cys Arg Leu Asn Pro Ala Leu Ala Asp
 325 330 335
 Glu Leu His Ser Leu Leu Ile Arg Gln Arg Ile
 340 345

<210> 2277

<211> 197

<212> PRT

<213> Homo sapiens

<400> 2277

Met His Gly Ser Val Val Tyr Ile Ser Ala Leu Pro Phe Met Trp Pro
 1 5 10 15
 Ser Ser Leu Cys Ile Ile Phe Leu Ser Cys Val Met Lys Ser Lys Met
 20 25 30
 Arg Gln Ala Leu Gly Phe Ala Lys Glu Ala Arg Glu Ser Pro Asp Thr

35 40 45
Gln Ala Leu Leu Thr Cys Ala Glu Lys Glu Glu Glu Asn Gln Glu Asn
50 55 60
Leu Asp Trp Val Pro Leu Thr Thr Leu Ser His Cys Lys Ser Leu Arg
65 70 75 80
Thr Met Thr Ala Ile Ser Arg Tyr Met Glu Leu Thr Ile Glu Pro Val
85 90 95
Gln Gln Ala Gly Cys Ser Ala Thr Arg Leu Pro Gly Asp Gly Gln Thr
100 105 110
Ser Ala Gly Asp Ala Ser Leu Gln Asp Pro Pro Ser Tyr Pro Pro Val
115 120 125
Gln Val Ile Arg Ala Arg Val Ser Ser Gly Ser Ser Ser Glu Val Ser
130 135 140
Ser Ile Asn Ser Asp Leu Glu Gln Lys Tyr Trp Glu Ala Leu Asn Ser
145 150 155 160
Glu Gln Asp Pro Glu Asp Val Asn Leu Glu Gly Ser Lys Glu Asn Val
165 170 175
Glu Leu Leu Gly Ser Gln Val His Gln Asp Ser Val Arg Thr Ala His
180 185 190
Leu Ser Asp Asp Asp
195

<210> 2278

<211> 303

<212> PRT

<213> Homo sapiens

<400> 2278

Met Ser His Leu Gln Gly Gln Pro Pro Ala Asp Pro Gln Pro Arg Pro
 1 5 10 15
 Ala Leu Pro Ala Ala Pro Trp Ala Cys Leu Cys Pro His Ser His Pro
 20 25 30
 Val His Ser Cys Val Ser Val Ala Gly Asp Arg Gly Trp Gly Lys Gly
 35 40 45
 Leu Arg Tyr Thr Arg Gly Cys Gly Asp Pro Gln His Gly Cys Pro Gly
 50 55 60
 Ser Ser Leu Trp Lys Cys Arg Ile Gly Ser Gly Pro Gln Ser Cys Ala
 65 70 75 80
 Gly Pro Ser Val Pro Ser Pro Ser Pro Glu Ser Leu Leu Pro Ala Ser
 85 90 95
 Ala Ala Pro Arg Val Val Gly Ala Thr Ser Leu Gly Ser Gly Leu Gly
 100 105 110
 Ala Phe Met Met Pro Ala Trp Gly Leu Ser Lys Ser Ser Pro Arg Gly
 115 120 125
 Leu Ser Lys Ser Ser Pro Arg Gly Leu Ser Lys Ser Ser Pro Arg Gly
 130 135 140
 Leu Ser Met Ser Ser Pro Arg Gly Leu Ser Lys Ser Ser Pro Arg Gly
 145 150 155 160
 Leu Ser Lys Ser Ser Pro Trp Gly Leu Ser Lys Ser Ser Pro Arg Gly
 165 170 175
 Leu Ser Met Ser Ser Pro Arg Gly Leu Ser Lys Ser Ser Pro Arg Gly
 180 185 190
 Leu Ser Lys Ser Ser Pro Trp Gly Leu Ser Lys Ser Phe Leu Cys Arg
 195 200 205
 Leu Ser Lys Ser Ser Pro Trp Val Leu Ser Met Ser Ser Pro Gln Gly
 210 215 220
 Leu Ser Lys Ser Ser Pro Arg Gly Leu Ser Lys Ser Ser Pro Arg Gly

225 230 235 240
 Leu Ser Met Ser Ser Pro Arg Gly Leu Ser Lys Ser Ser Pro Arg Gly
 245 250 255
 Leu Ile Met Ser Ser Pro Arg Gly Leu Ser Met Ser Ser Pro Arg Gly
 260 265 270
 Leu Ser Lys Ser Ser Pro Trp Gly Leu Ser Met Ser Ser Pro Arg Gly
 275 280 285
 Leu Ser Lys Ser Ser Pro Arg Gly Leu Cys Pro Pro His Gly Val
 290 295 300

<210> 2279

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2279

Met Ser Ala Thr Gln Ala Glu Asn Lys Gln Thr Ala Leu Arg Ala Thr
 1 5 10 15
 Gly Ser Gly Trp Met His Val Phe Pro Ala Pro Thr Trp Gln Ser Leu
 20 25 30
 Arg Pro Gly Leu Cys Ile Ser Ser Gly Glu Thr Glu Ala Pro Arg Gly
 35 40 45
 Pro Thr Pro His Pro Glu Gln Leu Thr Ser Cys Pro Ile Leu Leu Pro
 50 55 60
 Pro Gly Pro Ser Pro Ile Pro Ser Pro Thr Pro Gly Leu Ser Phe Leu
 65 70 75 80
 Ser Arg Gln Gly Gly Ile Trp Thr Val Pro Val Pro Leu Leu Cys Pro
 85 90 95

Leu Pro Pro Gly Val Pro Val Ala Arg Ser Leu Pro Glu Ala Glu Asp
 100 105 110
 Gly Ala Gly Arg Val Trp Pro Gly Ala Glu Arg Gly Ser Gly Ala Gly
 115 120 125
 Leu Cys Pro Ala Pro Ala Gly Val
 130 135

<210> 2280

<211> 168

<212> PRT

<213> Homo sapiens

<400> 2280

Met Lys Ala Ser Gly Arg Gln Pro Leu Glu Asp Gln Ser Gly Ala Gly
 1 5 10 15
 Thr Ser Ser Ala Cys Cys Arg Val Trp Arg Val Thr Thr Gln Lys Gly
 20 25 30
 Gly Thr Gly Glu Trp Thr Gln Ala Ser Val Leu Ser Gly Ala Val Pro
 35 40 45
 Ala Thr Gly Phe Leu Arg Gln Ser Gly Ile Gly Leu Asp Ser Arg Gly
 50 55 60
 Phe Ile Pro Val Asn Lys Met Met Gln Thr Asn Val Pro Gly Val Phe
 65 70 75 80
 Ala Ala Gly Asp Ala Val Thr Phe Pro Leu Ala Trp Arg Asn Asn Arg
 85 90 95
 Lys Val Asn Ile Pro His Trp Gln Met Ala His Ala Gln Gly Arg Val
 100 105 110
 Ala Ala Gln Asn Met Leu Ala Gln Glu Ala Glu Met Ser Thr Val Pro

115 120 125
 Tyr Leu Trp Thr Ala Met Phe Gly Lys Ser Leu Arg Tyr Ala Gly Tyr
 130 135 140
 Gly Glu Gly Phe Asp Asp Val Ile Ile Gln Gly Asp Leu Glu Glu Leu
 145 150 155 160
 Lys Phe Val Ala Phe Tyr Thr Lys
 165

<210> 2281

<211> 524

<212> PRT

<213> Homo sapiens

<400> 2281

Met His Ser Leu Asp Glu Pro Leu Asp Leu Lys Leu Ser Ile Thr Lys
 1 5 10 15
 Leu Arg Ala Ala Arg Glu Lys Arg Glu Arg Thr Leu Gly Val Val Arg
 20 25 30
 Pro Arg Ala Leu His Arg Glu Leu Gly Leu Val Asp Asp Ser Pro Thr
 35 40 45
 Pro Gly Ser Pro Gly Ser Pro Pro Ser Gly Phe Leu Leu Asn Ser Lys
 50 55 60
 Phe Pro Glu Lys Val Glu Gly Arg Phe Ser Ala Ala Pro Leu Val Asp
 65 70 75 80
 Leu Ser Leu Ser Pro Pro Ser Gly Leu Asp Ser Pro Asn Gly Ser Ser
 85 90 95
 Ser Leu Ser Pro Glu Arg Gln Gly Asn Gly Asp Leu Pro Pro Val Pro
 100 105 110

Ser Ala Ser Asp Phe Gln Pro Leu Arg Tyr Leu Asp Gly Val Pro Ser
 115 120 125
 Ser Phe Gln Phe Phe Leu Pro Leu Gly Ser Gly Gly Ala Leu His Leu
 130 135 140
 Pro Ala Ser Ser Phe Leu Thr Pro Pro Lys Asp Lys Cys Leu Ser Pro
 145 150 155 160
 Asp Leu Pro Leu Pro Lys Gln Leu Val Cys Arg Trp Ala Lys Cys Asn
 165 170 175
 Gln Leu Phe Glu Leu Leu Gln Asp Leu Val Asp His Val Asn Asp Tyr
 180 185 190
 His Val Lys Pro Glu Lys Asp Ala Gly Tyr Cys Cys His Trp Glu Gly
 195 200 205
 Cys Ala Arg His Gly Arg Gly Phe Asn Ala Arg Tyr Lys Met Leu Ile
 210 215 220
 His Ile Arg Thr His Thr Asn Glu Lys Pro His Arg Cys Pro Thr Cys
 225 230 235 240
 Ser Lys Ser Phe Ser Arg Leu Glu Asn Leu Lys Ile His Asn Arg Ser
 245 250 255
 His Thr Gly Glu Lys Pro Tyr Val Cys Pro Tyr Glu Gly Cys Asn Lys
 260 265 270
 Arg Tyr Ser Asn Ser Ser Asp Arg Phe Lys His Thr Arg Thr His Tyr
 275 280 285
 Val Asp Lys Pro Tyr Tyr Cys Lys Met Pro Gly Cys His Lys Arg Tyr
 290 295 300
 Thr Asp Pro Ser Ser Leu Arg Lys His Ile Lys Ala His Gly His Phe
 305 310 315 320
 Val Ser His Glu Gln Gln Glu Leu Leu Gln Leu Arg Pro Pro Pro Lys
 325 330 335
 Pro Pro Leu Pro Ala Pro Asp Gly Gly Pro Tyr Val Ser Gly Ala Gln

340	345	350
Ile Ile Ile Pro Asn Pro Ala Ala Leu Phe Gly Gly Pro Gly Leu Pro		
355	360	365
Gly Leu Pro Leu Pro Leu Ala Pro Gly Pro Leu Asp Leu Ser Ala Leu		
370	375	380
Ala Cys Gly Asn Gly Gly Gly Ser Gly Gly Gly Gly Gly Met Gly Pro		
385	390	395
Gly Leu Pro Gly Pro Val Leu Pro Leu Asn Leu Ala Lys Asn Pro Leu		
405	410	415
Leu Pro Ser Pro Phe Gly Ala Gly Gly Leu Gly Leu Pro Val Val Ser		
420	425	430
Leu Leu Ala Gly Ala Ala Gly Gly Lys Ala Glu Gly Glu Lys Gly Arg		
435	440	445
Gly Ser Val Pro Thr Arg Ala Leu Gly Met Glu Gly His Lys Thr Pro		
450	455	460
Leu Glu Arg Thr Glu Ser Ser Cys Ser Arg Pro Ser Pro Asp Gly Leu		
465	470	475
Pro Leu Leu Pro Gly Thr Val Leu Asp Leu Ser Thr Gly Val Asn Ser		
485	490	495
Ala Ala Ser Ser Pro Glu Ala Leu Ala Pro Gly Trp Val Val Ile Pro		
500	505	510
Pro Gly Ser Val Leu Leu Lys Pro Ala Val Val Asn		
515	520	

<210> 2282

<211> 446

<212> PRT

<213> Homo sapiens

<400> 2282

Met His Glu Pro Ser Leu Cys Ala Asn Val Glu Cys Pro Pro Ala His
1 5 10 15
Thr Cys Pro Cys Gly Val Pro Ala Cys Ser Cys Ala His Val Glu Cys
20 25 30
Pro Pro Ala His Thr Cys Arg Cys Gly Val Pro Ala Cys Ser His Met
35 40 45
Pro Met Trp Ser Ala Arg Leu Leu Thr Arg Ala His Val Glu Cys Pro
50 55 60
Pro Ala His Thr Arg Val His Val Glu Cys Pro Pro Ala His Val Pro
65 70 75 80
Met Trp Ser Ala His Leu Leu Thr Cys Ala Asp Val Glu Cys His Leu
85 90 95
Leu Thr His Val Pro Met Trp Ser Ala Arg Leu Leu Thr Cys Pro Cys
100 105 110
Gly Val Pro Ala Cys Ser His Val Pro Met Arg Ser Ala Arg Leu Leu
115 120 125
Thr Arg Ala His Ala Glu Cys Pro Pro Ala His Thr Cys Pro Cys Gly
130 135 140
Val Pro Ala Cys Ser His Val Pro Met Arg Ser Ala Arg Leu Leu Thr
145 150 155 160
Arg Ala Asp Val Glu Cys Pro Pro Ala His Thr Cys Pro Cys Gly Val
165 170 175
Pro Ala Cys Ser His Val Pro Thr Trp Ser Ala Arg Leu Ile Thr Arg
180 185 190
Ala His Val Glu Cys Ser Pro Ala His Thr Cys Arg Cys Gly Val Pro
195 200 205
Ala Cys Ser His Val Pro Met Trp Ser Val Arg Leu Leu Thr Arg Ala

210 215 220
Asp Ala Glu Cys Pro Pro Ala His Thr Cys Arg Cys Gly Val Pro Ala
225 230 235 240
Cys Ser His Val Pro Met Trp Ser Ala Arg Leu Leu Thr Cys Arg Cys
245 250 255
Gly Val Pro Ala Cys Ser His Val Pro Met Trp Ser Ala Arg Leu Leu
260 265 270
Thr Cys Arg Cys Gly Val Pro Ala Cys Ser His Val Pro Met Trp Ser
275 280 285
Ala Arg Leu Leu Thr Arg Ala His Glu Glu Cys Pro Pro Ala His Thr
290 295 300
Cys Arg Arg Gly Val Pro Ala Cys Ser Arg Ala His Met Glu Cys Pro
305 310 315 320
Pro Ala His Thr Cys His Cys Gly Val Pro Ala Cys Ser His Thr Cys
325 330 335
Arg Cys Gly Val Pro Ala Cys Ser His Val Pro Met Trp Ser Ala Arg
340 345 350
Leu Leu Thr Arg Ala His Val Glu Cys Pro Pro Ala His Thr Arg Ala
355 360 365
His Val Glu Cys Pro Pro Ala His Thr Cys Pro Cys Gly Val Pro Ala
370 375 380
Cys Ser His Thr Cys Pro Cys Gly Val Pro Ala Cys Ser His Lys Ala
385 390 395 400
Leu Ala Trp Trp Phe Cys Arg Phe Pro Val Leu Pro Ala Glu Ser Asp
405 410 415
Ala Val Thr Val His Ser Thr His Gly Gly Phe Leu Ile Arg Phe Tyr
420 425 430
Val Lys Asp Pro Phe Tyr Ile Ser Leu His Leu Glu Ile Thr
435 440 445

<210> 2283

<211> 398

<212> PRT

<213> Homo sapiens

<400> 2283

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Met Ser Ala Thr Tyr Cys Val Gly Asp Ala Ala Arg Gln Gly Leu Arg
  1           5           10          15
Arg Thr Pro Leu Gly His Gly Ser Pro Asp Thr Ser Glu Thr Pro Gln
          20          25          30
Asn Pro Lys Gly Ser Ser Arg Val Leu Cys Leu Arg Glu Val Gly Ala
          35          40          45
Arg Phe Val Ser Cys Leu Leu Gly Glu Gln Leu Phe Leu Glu Pro Glu
          50          55          60
Leu Val Ile Pro His Arg Gln His Arg Leu Phe Thr Ala Pro Thr Phe
          65          70          75          80
Thr Gly Ser Phe Leu Ser Pro Trp Pro Pro Ala Val Thr Asp Ala Ser
          85          90          95
Phe Lys Val Lys Ser His Val Tyr Ser Leu Glu Gly Gln Asp Cys Lys
          100         105         110
Tyr Thr Pro Met Phe Gly Pro Glu Ala Arg Thr Leu Val Leu Arg Leu
          115         120         125
Ala Gln Leu Ile Thr Gln Ala Lys His Thr Ala Lys Ser Ile Ser Asp
          130         135         140
Gln Cys Ala Glu Ser Pro Ala Gly His Ser Phe Leu Ser Trp Leu Gly
          145         150         155         160
Phe Ser Ser Met Asp Thr Asn Gly Ser Tyr Thr Ala Asn Asp Leu Asp

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165	170	175
Glu Met Gly Gln Asp Ser Val Arg Lys Thr Asp Glu Tyr Leu Glu Lys		
180	185	190
Ala Leu Glu Tyr Leu Arg Gln Ile Phe Arg Leu Ser Glu Ala Gln Leu		
195	200	205
Arg Gln Phe Thr Leu Ala Leu Gly Thr Thr Gln Asp Glu Asn Gly Lys		
210	215	220
Lys Gln Leu Pro Asp Cys Ile Val Gly Glu Asp Gly Leu Ile Leu Thr		
225	230	235
240		
Pro Leu Gly Arg Tyr Gln Ile Ile Asn Gly Leu Arg Arg Phe Glu Ile		
245	250	255
Glu Tyr Gln Gly Asp Pro Glu Leu Gln Pro Ile Arg Ser Tyr Glu Ile		
260	265	270
Ala Gly Leu Val Arg Thr Leu Phe Arg Leu Ser Ser Ala Ile Asn His		
275	280	285
Arg Phe Ala Gly Gln Met Ala Ala Leu Cys Ser Arg Asp Asp Phe Leu		
290	295	300
Gly Ser Phe Cys Arg Tyr His Leu Thr Glu Pro Gly Leu Ala Ser Arg		
305	310	315
320		
His Leu Leu Ser Pro Val Gly Arg Arg Gln Val Ala Gly His Thr Arg		
325	330	335
Gly Pro Arg Leu Ser Leu Arg Phe Leu Gly Ser Tyr Arg Thr Leu Val		
340	345	350
Ser Leu Leu Leu Ala Phe Phe Val Ala Ser Leu Phe Cys Val Gly Pro		
355	360	365
Leu Pro Cys Thr Leu Leu Leu Thr Leu Gly Tyr Val Leu Tyr Ala Ser		
370	375	380
Ala Met Thr Leu Leu Thr Glu Arg Gly Lys Leu His Gln Pro		
385	390	395

<210> 2284

<211> 1105

<212> PRT

<213> Homo sapiens

<400> 2284

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Met Ala Ala Gly Lys Ser Gly Gly Ser Ala Gly Glu Ile Thr Phe Leu
  1             5             10             15
Glu Ala Leu Ala Arg Ser Glu Ser Lys Arg Asp Gly Gly Phe Lys Asn
          20             25             30
Asn Trp Ser Phe Asp His Glu Glu Glu Ser Glu Gly Asp Thr Asp Lys
          35             40             45
Asp Gly Thr Asn Leu Leu Ser Val Asp Glu Asp Glu Asp Ser Glu Thr
          50             55             60
Ser Lys Gly Lys Lys Leu Asn Arg Arg Ser Glu Ile Val Ala Asn Ser
  65             70             75             80
Ser Gly Glu Phe Ile Leu Lys Thr Tyr Val Arg Arg Asn Lys Ser Glu
          85             90             95
Ser Phe Lys Thr Leu Lys Gly Asn Pro Ile Gly Leu Asn Met Leu Ser
          100            105            110
Asn Asn Lys Lys Leu Ser Glu Asn Met Gln Asn Thr Ser Leu Cys Ser
          115            120            125
Gly Thr Val Val His Gly Arg Arg Phe His His Ala His Ala Gln Ile
          130            135            140
Pro Val Val Lys Thr Ala Ala Gln Arg Lys Glu Tyr Pro Pro His Val
          145            150            155            160
Gln Lys Val Glu Ile Asn Pro Val Arg Leu Ser Arg Leu Gln Gly Val

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165	170	175
Glu Arg Ile Met Lys Lys Thr Glu Glu Ser Glu Ser Gln Val Glu Pro		
180	185	190
Glu Ile Lys Arg Lys Val Gln Gln Lys Arg His Cys Ser Thr Tyr Gln		
195	200	205
Pro Thr Pro Pro Leu Ser Pro Ala Ser Lys Lys Cys Leu Thr His Leu		
210	215	220
Glu Asp Leu Gln Arg Asn Cys Arg Gln Ala Ile Thr Leu Asn Glu Ser		
225	230	235
240		
Thr Gly Pro Leu Leu Arg Thr Ser Ile His Gln Asn Ser Gly Gly Gln		
245	250	255
Lys Ser Gln Asn Thr Gly Leu Thr Thr Lys Lys Phe Tyr Gly Asn Asn		
260	265	270
Val Glu Lys Val Pro Ile Asp Ile Ile Val Asn Cys Asp Asp Ser Lys		
275	280	285
His Thr Tyr Leu Gln Thr Asn Gly Lys Val Ile Leu Pro Gly Ala Lys		
290	295	300
Ile Pro Lys Ile Thr Asn Leu Lys Glu Arg Lys Thr Ser Leu Ser Asp		
305	310	315
320		
Leu Asn Asp Pro Ile Ile Leu Ser Ser Asp Asp Asp Asp Asp Asn Asp		
325	330	335
Arg Thr Asn Arg Arg Glu Ser Ile Ser Pro Gln Pro Ala Asp Ser Ala		
340	345	350
Cys Ser Ser Pro Ala Pro Ser Thr Gly Lys Val Glu Ala Ala Leu Asn		
355	360	365
Glu Asn Thr Cys Arg Ala Glu Arg Glu Leu Arg Ser Ile Pro Glu Asp		
370	375	380
Ser Glu Leu Asn Thr Val Thr Leu Pro Arg Lys Ala Arg Met Lys Asp		
385	390	395
400		

Gln Phe Gly Asn Ser Ile Ile Asn Thr Pro Leu Lys Arg Arg Lys Val
405 410 415
Phe Ser Gln Glu Pro Pro Asp Ala Leu Ala Leu Ser Cys Gln Ser Ser
420 425 430
Phe Asp Ser Val Ile Leu Asn Cys Arg Ser Ile Arg Val Gly Thr Leu
435 440 445
Phe Arg Leu Leu Ile Glu Pro Val Ile Phe Cys Leu Asp Phe Ile Lys
450 455 460
Ile Gln Leu Asp Glu Pro Asp His Asp Pro Val Glu Ile Ile Leu Asn
465 470 475 480
Thr Ser Asp Leu Thr Lys Cys Glu Trp Cys Asn Val Arg Lys Leu Pro
485 490 495
Val Val Phe Leu Gln Ala Ile Pro Ala Val Tyr Gln Lys Leu Ser Ile
500 505 510
Gln Leu Gln Met Asn Lys Glu Asp Lys Val Trp Asn Asp Cys Lys Gly
515 520 525
Val Asn Lys Leu Thr Asn Leu Glu Glu Gln Tyr Ile Ile Leu Ile Phe
530 535 540
Gln Asn Gly Leu Asp Pro Pro Ala Asn Met Val Phe Glu Ser Ile Ile
545 550 555 560
Asn Glu Ile Gly Ile Lys Asn Asn Ile Ser Asn Phe Phe Ala Lys Ile
565 570 575
Pro Phe Glu Glu Ala Asn Gly Arg Leu Val Ala Cys Thr Arg Thr Tyr
580 585 590
Glu Glu Ser Ile Lys Gly Ser Cys Gly Gln Lys Glu Asn Lys Ile Lys
595 600 605
Thr Val Ser Phe Glu Ser Lys Ile Gln Leu Arg Ser Lys Gln Glu Phe
610 615 620
Gln Phe Phe Asp Glu Glu Glu Glu Thr Gly Glu Asn His Thr Ile Phe

625 630 635 640
Ile Gly Pro Val Glu Lys Leu Ile Val Tyr Pro Pro Pro Pro Ala Lys
 645 650 655
Gly Gly Ile Ser Val Thr Asn Glu Asp Leu His Cys Leu Asn Glu Gly
 660 665 670
Glu Phe Leu Asn Asp Val Ile Ile Asp Phe Tyr Leu Lys Tyr Leu Val
 675 680 685
Leu Glu Lys Leu Lys Lys Glu Asp Ala Asp Arg Ile His Ile Phe Ser
 690 695 700
Ser Phe Phe Tyr Lys Arg Leu Asn Gln Arg Glu Arg Arg Asn His Glu
705 710 715 720
Thr Thr Asn Leu Ser Ile Gln Gln Lys Arg His Gly Arg Val Lys Thr
 725 730 735
Trp Thr Arg His Val Asp Ile Phe Glu Lys Asp Phe Ile Phe Val Pro
 740 745 750
Leu Asn Glu Ala Ala His Trp Phe Leu Ala Val Val Cys Phe Pro Gly
 755 760 765
Leu Glu Lys Pro Lys Tyr Glu Pro Asn Pro His Tyr His Glu Asn Ala
 770 775 780
Val Ile Gln Lys Cys Ser Thr Val Glu Asp Ser Cys Ile Ser Ser Ser
785 790 795 800
Ala Ser Glu Met Glu Ser Cys Ser Gln Asn Ser Ser Ala Lys Pro Val
 805 810 815
Ile Lys Lys Met Leu Asn Lys Lys His Cys Ile Ala Val Ile Asp Ser
 820 825 830
Asn Pro Gly Gln Glu Glu Ser Asp Pro Arg Tyr Lys Arg Asn Ile Cys
 835 840 845
Ser Val Lys Tyr Ser Val Lys Lys Ile Asn His Thr Ala Ser Glu Asn
 850 855 860

Glu Glu Phe Asn Lys Gly Glu Ser Thr Ser Gln Lys Val Ala Asp Arg
865 870 875 880
Thr Lys Ser Glu Asn Gly Leu Gln Asn Glu Ser Leu Ser Ser Thr His
885 890 895
His Thr Asp Gly Leu Ser Lys Ile Arg Leu Asn Tyr Ser Asp Glu Ser
900 905 910
Pro Glu Ala Gly Lys Met Leu Glu Asp Glu Leu Val Asp Phe Ser Glu
915 920 925
Asp Gln Asp Asn Gln Asp Asp Ser Ser Asp Asp Gly Phe Leu Ala Asp
930 935 940
Asp Asn Cys Ser Ser Glu Ile Gly Gln Trp His Leu Lys Pro Thr Ile
945 950 955 960
Cys Lys Gln Pro Cys Ile Leu Leu Met Asp Ser Leu Arg Gly Pro Ser
965 970 975
Arg Ser Asn Val Val Lys Ile Leu Arg Glu Tyr Leu Glu Val Glu Trp
980 985 990
Glu Val Lys Lys Gly Ser Lys Arg Ser Phe Ser Lys Asp Val Met Lys
995 1000 1005
Gly Ser Asn Pro Lys Val Pro Gln Gln Asn Asn Phe Ser Asp Cys Gly
1010 1015 1020
Val Tyr Val Leu Gln Tyr Val Glu Ser Phe Phe Glu Asn Pro Ile Leu
1025 1030 1035 1040
Ser Phe Glu Leu Pro Met Asn Leu Ala Asn Trp Phe Pro Pro Pro Arg
1045 1050 1055
Met Arg Thr Lys Arg Glu Glu Ile Arg Asn Ile Ile Leu Lys Leu Gln
1060 1065 1070
Glu Asp Gln Ser Lys Glu Lys Arg Lys His Lys Asp Thr Tyr Ser Thr
1075 1080 1085
Glu Ala Pro Leu Gly Glu Gly Thr Glu Gln Cys Val Asn Ser Ile Ser

1090 1095 1100

Asp

1105

<210> 2285

<211> 725

<212> PRT

<213> Homo sapiens

<400> 2285

Met Phe Arg Gln Phe Tyr Leu Trp Thr Cys Leu Ala Ser Gly Ile Ile

1 5 10 15

Leu Gly Ser Leu Phe Glu Ile Cys Leu Gly Gln Tyr Asp Asp Gly Thr

20 25 30

Ile Leu Val Asp Asn Met Leu Ile Lys Gly Thr Ala Gly Gly Pro Asp

35 40 45

Pro Thr Ile Glu Leu Ser Leu Lys Asp Asn Val Asp Tyr Trp Val Leu

50 55 60

Met Asp Pro Val Lys Gln Met Leu Phe Leu Asn Ser Thr Gly Arg Val

65 70 75 80

Leu Asp Arg Asp Pro Pro Met Asn Ile His Ser Ile Val Val Gln Val

85 90 95

Gln Cys Ile Asn Lys Lys Val Gly Thr Ile Ile Tyr His Glu Val Arg

100 105 110

Ile Val Val Arg Asp Arg Asn Asp Asn Ser Pro Thr Phe Lys His Glu

115 120 125

Ser Tyr Tyr Ala Thr Val Asn Glu Leu Thr Pro Val Gly Thr Thr Ile

130 135 140

Phe Thr Gly Phe Ser Gly Asp Asn Gly Ala Thr Asp Ile Asp Asp Gly
145 150 155 160
Pro Asn Gly Gln Ile Glu Tyr Val Ile Gln Tyr Asn Pro Asp Asp Pro
165 170 175
Thr Ser Asn Asp Thr Phe Glu Ile Pro Leu Met Leu Thr Gly Asn Ile
180 185 190
Val Leu Arg Lys Arg Leu Asn Tyr Glu Asp Lys Thr Arg Tyr Phe Val
195 200 205
Ile Ile Gln Ala Asn Asp Arg Ala Gln Asn Leu Asn Glu Arg Arg Thr
210 215 220
Thr Thr Thr Thr Leu Thr Val Asp Val Leu Asp Gly Asp Asp Leu Gly
225 230 235 240
Pro Met Phe Leu Pro Cys Val Leu Val Pro Asn Thr Arg Asp Cys Arg
245 250 255
Pro Leu Thr Tyr Gln Ala Ala Ile Pro Glu Leu Arg Thr Pro Glu Glu
260 265 270
Leu Asn Pro Ile Ile Val Thr Pro Pro Ile Gln Ala Ile Asp Gln Asp
275 280 285
Arg Asn Ile Gln Pro Pro Ser Asp Arg Pro Gly Ile Leu Tyr Ser Ile
290 295 300
Leu Val Gly Thr Pro Glu Asp Tyr Pro Arg Phe Phe His Met His Pro
305 310 315 320
Arg Thr Ala Glu Leu Ser Leu Leu Glu Pro Val Asn Arg Asp Phe His
325 330 335
Gln Lys Phe Asp Leu Val Ile Lys Ala Glu Gln Asp Asn Gly His Pro
340 345 350
Leu Pro Ala Phe Ala Gly Leu His Ile Glu Ile Leu Asp Glu Asn Asn
355 360 365
Gln Ser Pro Tyr Phe Thr Met Pro Ser Tyr Gln Gly Tyr Ile Leu Glu

370 375 380
Ser Ala Pro Val Gly Ala Thr Ile Ser Asp Ser Leu Asn Leu Thr Ser
385 390 395 400
Pro Leu Arg Ile Val Ala Leu Asp Lys Asp Ile Glu Asp Thr Lys Asp
405 410 415
Pro Glu Leu His Leu Phe Leu Asn Asp Tyr Thr Ser Val Phe Thr Val
420 425 430
Thr Gln Thr Gly Ile Thr Arg Tyr Leu Thr Leu Leu Gln Pro Val Asp
435 440 445
Arg Glu Glu Gln Gln Thr Tyr Thr Phe Ser Ile Thr Ala Phe Asp Gly
450 455 460
Val Gln Glu Ser Glu Pro Val Ile Val Asn Ile Gln Val Met Asp Ala
465 470 475 480
Asn Asp Asn Thr Pro Thr Phe Pro Glu Ile Ser Tyr Asp Val Tyr Val
485 490 495
Tyr Thr Asp Met Arg Pro Gly Asp Ser Val Ile Gln Leu Thr Ala Val
500 505 510
Asp Ala Asp Glu Gly Ser Asn Gly Glu Ile Thr Tyr Glu Ile Leu Val
515 520 525
Gly Ala Gln Gly Asp Phe Ile Ile Asn Lys Thr Thr Gly Leu Ile Thr
530 535 540
Ile Ala Pro Gly Val Glu Met Ile Val Gly Arg Thr Tyr Ala Leu Thr
545 550 555 560
Val Gln Ala Ala Asp Asn Ala Pro Pro Ala Glu Arg Arg Asn Ser Ile
565 570 575
Cys Thr Val Tyr Ile Glu Val Leu Pro Pro Asn Asn Gln Ser Pro Pro
580 585 590
Arg Phe Pro Gln Leu Met Tyr Ser Leu Glu Ile Ser Glu Ala Met Arg
595 600 605

Val Gly Ala Val Leu Leu Asn Leu Gln Ala Thr Asp Arg Glu Gly Asp
 610 615 620
 Ser Ile Thr Tyr Ala Ile Glu Asn Gly Asp Pro Gln Arg Val Phe Asn
 625 630 635 640
 Leu Ser Glu Thr Thr Gly Ile Leu Thr Leu Gly Lys Ala Leu Asp Arg
 645 650 655
 Glu Ser Thr Asp Arg Tyr Ile Leu Ile Ile Thr Ala Ser Asp Gly Arg
 660 665 670
 Pro Asp Gly Thr Ser Thr Ala Thr Val Asn Ile Val Val Thr Asp Val
 675 680 685
 Asn Asp Asn Ala Pro Val Phe Asp Pro Tyr Leu Pro Arg Asn Leu Ser
 690 695 700
 Val Val Glu Glu Glu Ala Asn Ala Phe Val Gly Gln Val Lys Ala Ile
 705 710 715 720
 Asn Asn Asp Ser Val
 725

<210> 2286

<211> 267

<212> PRT

<213> Homo sapiens

<400> 2286

Met Ala Val Ile Leu Phe Thr Gln Leu Thr Ala Pro Met Ala Val Ile
 1 5 10 15
 Leu Phe Thr Gln Leu Thr Ala Pro Met Ala Val Ile Leu Phe Thr Gln
 20 25 30
 Leu Thr Ala Pro Met Ala Val Ile Leu Phe Thr Gln Leu Thr Ala Pro

35 40 45
Met Ala Val Ile Leu Phe Thr Gln Leu Thr Ala Pro Met Ala Val Ile
50 55 60
Leu Phe Thr Gln Leu Thr Ala Pro Met Ala Val Ile Leu Phe Thr Gln
65 70 75 80
Leu Thr Ala Pro Met Ala Val Ile Leu Phe Thr Gln Leu Thr Ala Pro
85 90 95
Met Thr Val Ile Leu Phe Thr Gln Leu Thr Ala Pro Met Thr Val Ile
100 105 110
Leu Phe Thr Gln Leu Thr Ala Pro Met Ala Val Ile Leu Phe Thr Gln
115 120 125
Leu Thr Ala Pro Met Ala Val Ile Leu Phe Thr Gln Leu Thr Ala Pro
130 135 140
Met Ala Val Ile Leu Phe Thr Gln Leu Thr Ala Pro Met Ala Val Ile
145 150 155 160
Leu Phe Thr Gln Leu Thr Ala Pro Met Thr Val Ile Leu Phe Thr Gln
165 170 175
Leu Thr Ala Pro Met Thr Val Ile Leu Phe Thr Gln Leu Thr Ala Pro
180 185 190
Met Ala Val Ile Leu Phe Thr Gln Leu Thr Ala Pro Met Thr Val Ile
195 200 205
Leu Phe Thr Gln Phe Thr Ala Pro Met Thr Val Ile Leu Phe Thr Gln
210 215 220
Phe Thr Ala Pro Met Ala Val Ile Leu Phe Thr Gln Phe Thr Ala Pro
225 230 235 240
Met Ala Val Ile Leu Phe Thr Gln Leu Thr Ala Pro Met Thr Val Ile
245 250 255
Leu Phe Thr Gln Phe Thr Ala Pro Leu Ser Asn
260 265

<210> 2287

<211> 118

<212> PRT

<213> Homo sapiens

<400> 2287

Met Gly Lys Lys Asp Asp Pro Lys Leu Met Gln Glu Trp Phe Lys Leu
1 5 10 15
Val Gln Glu Lys Asn Ala Met Val Arg Tyr Glu Ser Glu Leu Met Ile
20 25 30
Phe Ala Arg Glu Leu Glu Leu Glu Asp Arg Gln Ser Arg Leu Gln Gln
35 40 45
Glu Leu Arg Glu Arg Met Ala Val Glu Asp His Leu Lys Thr Glu Glu
50 55 60
Glu Leu Ser Glu Glu Lys Gln Ile Leu Asn Glu Met Leu Glu Val Val
65 70 75 80
Glu Gln Arg Asp Ser Leu Ala Ala Leu Leu Glu Glu Gln Arg Leu Arg
85 90 95
Glu Arg Glu Glu Asp Lys Asp Leu Glu Ala Ala Met Leu Ser Lys Gly
100 105 110
Phe Ser Leu Asn Trp Ser
115

<210> 2288

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2288

Met Leu Arg Phe Met Val Lys Glu Ile Val Arg Asp Leu Asp Gln Asp
1 5 10 15
Gly Asp Lys Gln Leu Ser Val Pro Glu Phe Ile Ser Leu Pro Val Gly
20 25 30
Thr Val Glu Asn Gln Gln Gly Gln Asp Ile Asp Asp Asn Trp Val Lys
35 40 45
Asp Arg Lys Lys Glu Phe Glu Glu Leu Ile Asp Ser Asn His Asp Gly
50 55 60
Ile Val Thr Ala Glu Glu Leu Glu Ser Tyr Met Asp Pro Met Asn Glu
65 70 75 80
Tyr Asn Ala Leu Asn Glu Ala Lys Gln Met Ile Ala Val Ala Asp Glu
85 90 95
Asn Gln Asn His His Leu Glu Pro Glu Glu Val Leu Lys Tyr Ser Glu
100 105 110
Phe Phe Thr Gly Ser Lys Leu Val Asp Tyr Ala Arg Ser Val His Glu
115 120 125
Glu Phe
130

<210> 2289

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2289

Met Ala Ala Glu Glu Lys Asp Pro Leu Ser Tyr Phe Ala Ala Tyr Gly
 1 5 10 15
 Ser Ser Ser Ser Gly Ser Ser Asp Glu Glu Asp Asn Ile Glu Pro Glu
 20 25 30
 Glu Thr Ser Arg Arg Thr Pro Asp Pro Ala Lys Ser Ala Gly Gly Cys
 35 40 45
 Arg Asn Lys Ala Glu Lys Arg Leu Pro Gly Pro Asp Glu Leu Phe Arg
 50 55 60
 Ser Val Thr Arg Pro Ala Phe Leu Tyr Asn Pro Leu Asn Lys Gln Ile
 65 70 75 80
 Asp Trp Glu Arg His Val Val Lys Ala Pro Glu Glu Leu Leu Pro Glu
 85 90 95
 Thr Pro Ser Leu
 100

<210> 2290

<211> 238

<212> PRT

<213> Homo sapiens

<400> 2290

Met Leu Asn Leu His Pro Ala Val Val Lys Ala Ser Gln Glu Ile His
 1 5 10 15
 Phe Phe Asp Asn Asp Glu Asn Tyr Gly Lys Gly Ile Glu Trp Tyr Arg
 20 25 30
 Lys Lys Met Pro Phe Ser Tyr Pro Gln Gln Ile Thr Ile Glu Lys Ser
 35 40 45
 Pro Ala Tyr Phe Ile Thr Glu Glu Val Pro Glu Arg Ile Tyr Lys Met

50 55 60
Asn Ser Ser Ile Lys Leu Leu Ile Ile Val Arg Glu Pro Thr Thr Arg
65 70 75 80
Ala Ile Ser Asp Tyr Thr Gln Val Leu Glu Gly Lys Glu Arg Lys Asn
85 90 95
Lys Thr Tyr Tyr Lys Phe Glu Lys Leu Ala Ile Asp Pro Asn Thr Cys
100 105 110
Glu Val Asn Thr Lys Tyr Lys Ala Val Arg Thr Ser Ile Tyr Thr Lys
115 120 125
His Leu Glu Arg Trp Leu Lys Tyr Phe Pro Ile Glu Gln Phe His Val
130 135 140
Val Asp Gly Asp Arg Leu Ile Thr Glu Pro Leu Pro Glu Leu Gln Leu
145 150 155 160
Val Glu Lys Phe Leu Asn Leu Pro Pro Arg Ile Ser Gln Tyr Asn Leu
165 170 175
Tyr Phe Asn Ala Thr Arg Gly Phe Tyr Cys Leu Arg Phe Asn Ile Ile
180 185 190
Phe Asn Lys Cys Leu Ala Gly Ser Lys Gly Arg Ile His Pro Glu Val
195 200 205
Asp Pro Ser Val Ile Thr Lys Leu Arg Lys Phe Phe His Pro Phe Asn
210 215 220
Gln Lys Phe Tyr Gln Ile Thr Gly Arg Thr Leu Asn Trp Pro
225 230 235

<210> 2291

<211> 249

<212> PRT

<213> Homo sapiens

<400> 2291

Met Ser Pro Pro Thr Val Pro Pro Met Gly Val Asp Gly Val Ser Ala
 1 5 10 15
 Tyr Leu Met Lys Lys Arg His Thr His Arg Lys Gln Arg Arg Lys Pro
 20 25 30
 Thr Phe Leu Thr Arg Arg Asn Ile Val Gly Cys Arg Ile Gln His Gly
 35 40 45
 Trp Lys Glu Gly Asn Glu Pro Val Glu Gln Trp Lys Gly Thr Val Leu
 50 55 60
 Glu Gln Val Ser Val Lys Pro Thr Leu Tyr Ile Ile Lys Tyr Asp Gly
 65 70 75 80
 Lys Asp Ser Val Tyr Gly Leu Glu Leu His Arg Asp Lys Arg Val Leu
 85 90 95
 Ala Leu Glu Ile Leu Pro Glu Arg Val Pro Thr Pro Arg Ile Asp Ser
 100 105 110
 Arg Leu Ala Asp Ser Leu Ile Gly Lys Ala Val Glu His Val Phe Glu
 115 120 125
 Gly Glu His Gly Thr Lys Asp Glu Trp Lys Gly Met Val Leu Ala Arg
 130 135 140
 Ala Pro Val Met Asp Thr Trp Phe Tyr Ile Thr Tyr Glu Lys Asp Pro
 145 150 155 160
 Val Leu Tyr Met Tyr Thr Leu Leu Asp Asp Tyr Lys Asp Gly Asp Leu
 165 170 175
 Arg Ile Ile Pro Asp Ser Asn Tyr Tyr Phe Pro Thr Ala Glu Gln Glu
 180 185 190
 Pro Gly Glu Val Val Asp Ser Leu Val Gly Lys Gln Val Glu His Ala
 195 200 205
 Lys Asp Asp Gly Ser Lys Arg Thr Gly Ile Phe Ile His Gln Val Val

210 215 220
 Ala Lys Ser Ser Val Tyr Phe Ile Lys Phe Asp Asp Asp Ile His Ile
 225 230 235 240
 Tyr Val Tyr Gly Leu Val Lys Thr Pro
 245

<210> 2292

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2292

Met Lys Gln Gly Pro Glu Val Pro Asn Val Pro Leu Thr Val Leu Phe
 1 5 10 15
 Tyr Tyr Tyr Tyr Tyr Phe Glu Thr Glu Ser His Ser Val Ala Lys Ala
 20 25 30
 Gly Val Gln Trp Arg Asp Leu Gly Ser Leu Gln Ser Pro Thr Pro Gly
 35 40 45
 Leu Lys Pro Ser Ser His Leu Ser Phe Pro Ser Ser Trp Asp Ile Gly
 50 55 60
 Ala Cys Arg His Thr Trp Leu Ile Phe Val Phe Phe Val Glu Thr Gly
 65 70 75 80
 Phe Gln His Val Ala Gln Ala Gly Leu Glu Leu Leu Gly Ser Ser Asn
 85 90 95
 Leu Pro Ala Ser Val Pro Gln Ser Val Gly Ile Thr Gly Leu Ser His
 100 105 110
 Tyr Ala Gln Pro Phe Val Phe Lys Ile
 115 120

<210> 2293

<211> 412

<212> PRT

<213> Homo sapiens

<400> 2293

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Met Phe Tyr Gly Arg Ile Asn Gly Arg Asn Phe Ala Ala Ser Ser Leu
  1           5           10           15
Pro Val Ala Phe Ala Ala Thr Pro Leu Met Leu Phe Leu Pro Asn Pro
          20           25           30
Gln Leu Ile Cys Ser Phe Pro Ile Ser Ser Arg Asn His Ile Thr Gly
          35           40           45
Leu Met Pro Pro Gly Lys Leu Lys Leu Glu Asn Leu Phe His Met Cys
          50           55           60
Thr Arg Leu Gly Asp Gln Phe Tyr Lys Glu Ala Ile Glu His Cys Arg
          65           70           75           80
Ser Tyr Asn Ser Arg Leu Cys Ala Glu Arg Ser Val Arg Leu Pro Phe
          85           90           95
Leu Asp Ser Gln Thr Gly Val Ala Gln Asn Asn Cys Tyr Ile Trp Met
          100          105          110
Glu Lys Arg His Arg Gly Pro Gly Leu Ala Pro Gly Gln Leu Tyr Thr
          115          120          125
Tyr Pro Ala Arg Cys Trp Arg Lys Lys Arg Arg Leu His Pro Pro Glu
          130          135          140
Asp Pro Lys Leu Arg Leu Leu Glu Ile Lys Pro Glu Val Glu Leu Pro
          145          150          155          160
Leu Lys Lys Asp Gly Phe Thr Ser Glu Ser Thr Thr Leu Glu Ala Leu

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165	170	175
Leu Arg Gly Glu Gly Val Glu Lys Lys Val Asp Ala Arg Glu Glu Glu		
180	185	190
Ser Ile Gln Glu Ile Gln Arg Val Leu Glu Asn Asp Glu Asn Val Glu		
195	200	205
Glu Gly Asn Glu Glu Glu Asp Leu Glu Glu Asp Ile Pro Lys Arg Lys		
210	215	220
Asn Arg Thr Arg Gly Arg Ala Arg Gly Ser Ala Gly Gly Arg Arg Arg		
225	230	235
His Asp Ala Ala Ser Gln Glu Asp His Asp Lys Pro Tyr Val Cys Asp		
245	250	255
Ile Cys Gly Lys Arg His Lys Asn Arg Pro Gly Leu Ser Tyr Tyr Tyr		
260	265	270
Ala His Thr His Leu Ala Ser Glu Glu Gly Asp Glu Ala Gln Asp Gln		
275	280	285
Glu Thr Arg Ser Pro Pro Asn His Arg Asn Glu Asn His Arg Pro Gln		
290	295	300
Lys Gly Pro Asp Gly Thr Val Ile Pro Asn Asn Tyr Cys Asp Phe Cys		
305	310	315
Leu Gly Gly Ser Asn Met Asn Lys Lys Ser Gly Arg Pro Glu Glu Leu		
325	330	335
Val Ser Cys Ala Asp Cys Gly Arg Ser Ala His Leu Gly Gly Glu Gly		
340	345	350
Arg Lys Glu Lys Glu Ala Ala Ala Ala Arg Thr Thr Glu Asp Leu		
355	360	365
Phe Gly Ser Thr Ser Glu Ser Asp Thr Ser Thr Phe His Gly Phe Asp		
370	375	380
Glu Asp Asp Leu Glu Glu Pro Arg Ser Cys Arg Gly Arg Arg Ser Gly		
385	390	395
		400

Arg Gly Ser Pro Thr Ala Asp Lys Lys Gly Ser Cys

405

410

<210> 2294

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2294

Met Val His Cys Ser Leu Asp Leu Leu Gly Ser Asn Asp Ser Pro Ile

1

5

10

15

Ser Ala Ser Gln Gly Ala Arg Thr Thr Gly Thr Gly Cys His Thr Trp

20

25

30

Pro Ile Leu Lys Ile Ile Phe Gly Arg Asp Thr Ser Leu Pro Lys Phe

35

40

45

His Phe Ala Val Leu Pro Arg Leu Val Ser Lys Leu Leu Gly Ser Ser

50

55

60

His Ser Pro Thr Ser Ala Ser Gln Gln Tyr Trp Asp Tyr Arg His Glu

65

70

75

80

Pro Cys Ile Pro Ser Phe Ser Val Thr Leu Ile Val Val Ile Leu Ile

85

90

95

Gly Val Arg Trp

100

<210> 2295

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2295

Met Gly Lys Gln Leu Arg Thr Val Leu His Val His Asp Arg Gly Ala
1 5 10 15
Arg Gln Pro Gly Pro Pro Ser Ala Ala Glu Thr Leu Thr Asp Pro Ser
20 25 30
Ser Pro Leu Ala Ala Pro Thr Leu Ala Thr Thr Pro Ser Pro Ala Pro
35 40 45
Val Ala Val Asp Pro Ser Ala Ala Leu Arg Gly Leu Asp Ala Leu Arg
50 55 60
Ser Pro Glu Pro Asp Asp Arg Ala Leu Glu Thr Ser Gly Thr Pro Arg
65 70 75 80
Lys Thr Cys Ser Asp Leu Glu Pro Pro Pro Thr Ala Ala Thr His Phe
85 90 95
Glu Phe Phe Lys Glu Thr
100

<210> 2296

<211> 783

<212> PRT

<213> Homo sapiens

<400> 2296

Met Ala His Asp Ile Leu Lys Val Trp Asp Gly Pro Val Asp Ser Asp
1 5 10 15
Ile Leu Leu Lys Glu Trp Ser Gly Ser Ala Leu Pro Glu Asp Ile His
20 25 30

Ser Thr Phe Asn Ser Leu Thr Leu Gln Phe Asp Ser Asp Phe Phe Ile
 35 40 45
 Ser Lys Ser Gly Phe Ser Ile Gln Phe Ser Thr Ser Ile Ala Ala Thr
 50 55 60
 Cys Asn Asp Pro Gly Met Pro Gln Asn Gly Thr Arg Tyr Gly Asp Ser
 65 70 75 80
 Arg Glu Ala Gly Asp Thr Val Thr Phe Gln Cys Asp Pro Gly Tyr Gln
 85 90 95
 Leu Gln Gly Gln Ala Lys Ile Thr Cys Val Gln Leu Asn Asn Arg Phe
 100 105 110
 Phe Trp Gln Pro Asp Pro Pro Thr Cys Ile Ala Ala Cys Gly Gly Asn
 115 120 125
 Leu Thr Gly Pro Ala Gly Ile Ile Leu Ser Pro Asn Tyr Pro Gln Pro
 130 135 140
 Tyr Pro Pro Gly Lys Glu Cys Asp Trp Arg Val Lys Val Asn Pro Asp
 145 150 155 160
 Phe Val Ile Ala Leu Ile Phe Lys Ser Phe Asn Met Glu Pro Ser Tyr
 165 170 175
 Asp Phe Leu His Ile Tyr Glu Gly Glu Asp Ser Asn Ser Pro Leu Ile
 180 185 190
 Gly Ser Tyr Gln Gly Ser Gln Ala Pro Glu Arg Ile Glu Ser Ser Gly
 195 200 205
 Asn Ser Leu Phe Leu Ala Phe Arg Ser Asp Ala Ser Val Gly Leu Ser
 210 215 220
 Gly Phe Ala Ile Glu Phe Lys Glu Lys Pro Arg Glu Ala Cys Phe Asp
 225 230 235 240
 Pro Gly Asn Ile Met Asn Gly Thr Arg Val Gly Thr Asp Phe Lys Leu
 245 250 255
 Gly Ser Thr Ile Thr Tyr Gln Cys Asp Ser Gly Tyr Lys Ile Leu Asp

260	265	270
Pro Ser Ser Ile Thr Cys Val	Ile Gly Ala Asp Gly Lys Pro Ser Trp	
275	280	285
Asp Gln Val Leu Pro Ser Cys Asn Ala Pro Cys Gly Gly Gln Tyr Thr		
290	295	300
Gly Ser Glu Gly Val Val Leu Ser Pro Asn Tyr Pro His Asn Tyr Thr		
305	310	315
Ala Gly Gln Ile Cys Leu Tyr Ser Ile Thr Val Pro Lys Glu Phe Val		
325	330	335
Val Phe Gly Gln Phe Ala Tyr Phe Gln Thr Ala Leu Asn Asp Leu Ala		
340	345	350
Glu Leu Phe Asp Gly Thr His Ala Gln Ala Arg Leu Leu Ser Ser Leu		
355	360	365
Ser Gly Ser His Ser Gly Glu Thr Leu Pro Leu Ala Thr Ser Asn Gln		
370	375	380
Ile Leu Leu Arg Phe Ser Ala Lys Ser Gly Ala Ser Ala Arg Gly Phe		
385	390	395
His Phe Val Tyr Gln Ala Val Pro Arg Thr Ser Asp Thr Gln Cys Ser		
405	410	415
Ser Val Pro Glu Pro Arg Tyr Gly Arg Arg Ile Gly Ser Glu Phe Ser		
420	425	430
Ala Gly Ser Ile Val Arg Phe Glu Cys Asn Pro Gly Tyr Leu Leu Gln		
435	440	445
Gly Ser Thr Ala Leu His Cys Gln Ser Val Pro Asn Ala Leu Ala Gln		
450	455	460
Trp Asn Asp Thr Ile Pro Ser Cys Val Val Pro Cys Ser Gly Asn Phe		
465	470	475
Thr Gln Arg Arg Gly Thr Ile Leu Ser Pro Gly Tyr Pro Glu Pro Tyr		
485	490	495

Gly Asn Asn Leu Asn Cys Ile Trp Lys Ile Ile Val Thr Glu Gly Ser
500 505 510

Gly Ile Gln Ile Gln Val Ile Ser Phe Ala Thr Glu Gln Asn Trp Asp
515 520 525

Ser Leu Glu Ile His Asp Gly Gly Asp Val Thr Ala Pro Arg Leu Gly
530 535 540

Ser Phe Ser Gly Thr Thr Val Pro Ala Leu Leu Asn Ser Thr Ser Asn
545 550 555 560

Gln Leu Tyr Leu His Phe Gln Ser Asp Ile Ser Val Ala Ala Ala Gly
565 570 575

Phe His Leu Glu Tyr Lys Thr Val Gly Leu Ala Ala Cys Gln Glu Pro
580 585 590

Ala Leu Pro Ser Asn Ser Ile Lys Ile Gly Asp Arg Tyr Met Val Asn
595 600 605

Asp Val Leu Ser Phe Gln Cys Glu Pro Gly Tyr Thr Leu Gln Gly Arg
610 615 620

Ser His Ile Ser Cys Met Pro Gly Thr Val Arg Arg Trp Asn Tyr Pro
625 630 635 640

Ser Pro Leu Cys Ile Ala Thr Cys Gly Gly Thr Leu Ser Thr Leu Gly
645 650 655

Gly Val Ile Leu Ser Pro Gly Phe Pro Gly Ser Tyr Pro Asn Asn Leu
660 665 670

Asp Cys Thr Trp Arg Ile Ser Leu Pro Ile Gly Tyr Gly Ala His Ile
675 680 685

Gln Phe Leu Asn Phe Ser Thr Glu Ala Asn His Asp Phe Leu Glu Ile
690 695 700

Gln Asn Gly Pro Tyr His Thr Ser Pro Met Ile Gly Gln Phe Ser Gly
705 710 715 720

Thr Asp Leu Pro Ala Ala Leu Leu Ser Thr Thr His Glu Thr Phe Ile

出証特 2 0 0 4 - 3 0 5 9 6 6 1

His Gln Glu Tyr Ala Arg Val Lys Glu Glu Cys Leu Lys Ser Asp Ala
115 120 125
Gln Lys Lys Lys Leu Glu Ala Lys Val Lys Lys Leu Gln Glu Ala Ala
130 135 140
Val Lys Gln Thr Gln Asp Phe Lys Gln Leu Arg Asn Glu Lys Lys Ile
145 150 155 160
Leu Glu Lys Glu Phe Lys Lys Thr Gln Glu Arg Leu Asp Glu Phe Ser
165 170 175
Lys Gln Lys Asn Glu Lys Glu Leu Arg His Ile Gly Thr Gln Ile Ser
180 185 190
Ser Asp Ser Tyr Gly Ser Ile Asp Lys Arg Lys Val Lys Leu Leu Leu
195 200 205
Lys Glu Leu Trp Leu Cys Val Asn Thr Thr His Arg Leu Pro Gly Glu
210 215 220
Gly Ser Arg Cys Val Pro Glu Lys Pro Ala Lys Ala Ile Thr Ser Ser
225 230 235 240
Arg Val Pro Gly Glu Asp Gly Thr Leu Pro Pro Thr Gln Gly Ser Pro
245 250 255
Leu Arg Thr Ser Asn Val Gln Thr Cys Leu Thr Lys Leu Ser Met Glu
260 265 270
Ile Lys Glu Asp Phe Leu Cys Gln Asn Val Glu Lys Gln Ser Ser Ser
275 280 285
Gly Thr Asn Cys Ser Ser Asp His Val Phe Asn Glu Asn Gly Asn Leu
290 295 300
Glu Val Leu Val Gln Ser His Arg Asp Gly Gly Ser Thr Glu Phe Val
305 310 315 320
Asp His Asp His Phe Phe Asp Glu Asp Leu Gln Ala Ala Ile Asp Phe
325 330 335
Phe Lys Leu Pro Pro Pro Leu Leu Ser Pro Val Pro Ser Pro Pro Pro

340 345 350
Met Ser Ser Pro His Pro Gly Ser Leu Pro Ser Ser Phe Ala Pro Glu
355 360 365
Thr Tyr Phe Gly Glu Tyr Thr Asp Ser Ser Asp Asn Asp Ser Val Gln
370 375 380
Leu Arg Asn Ser Ala Glu Ser Val Ser Glu Asp Asp Thr Thr Glu Ser
385 390 395 400
Gln Asn Tyr Phe Gly Ser Leu Arg Lys Asn Lys Gly Ser Gly Thr Trp
405 410 415
Glu Glu Lys Pro Lys Ser His Glu Ala Ile Gln Ala Leu Asn Thr Trp
420 425 430
Glu Val Asn Lys Val Thr Thr Ser Gly Leu Glu Thr Phe Thr Ala Thr
435 440 445
Leu Arg Glu Ser Ser Ala Thr His Ser Leu Val Gly Glu Lys His Trp
450 455 460
Ser Thr Ala Ser Arg Ser Met Ser Asp Arg Lys Arg Asp Ile Leu His
465 470 475 480
Glu Thr Lys Thr Gln Met Glu Val Arg Glu Met Asp Lys Ser Val Gln
485 490 495
Thr Glu Lys Thr Ile His Lys Leu Thr Arg Gly Leu Cys Ile Glu Arg
500 505 510
Leu Ser Ala Ser Pro Ala Gln Glu Lys Glu Ala Ala Pro Gly Lys Ser
515 520 525
Glu Leu Cys Ser Ser Pro Leu Gly Lys Arg Pro Leu Asn Glu Leu Met
530 535 540
Glu Ser Glu Gly Lys Thr Val Leu Ser Lys Met Met Gly Ser Pro Lys
545 550 555 560
Ser Glu Phe Thr Lys Trp Thr Arg Ile Asn Glu Ile Thr Ser Glu Pro
565 570 575

Asp Arg Ile Thr Val Ser Gly His Phe His Arg Leu Ser Arg Glu Leu			
580	585	590	
Glu Lys Glu Lys Glu Asp Thr Gln Gly Phe Thr Leu Gly Glu Ser Pro			
595	600	605	
Glu Ser Glu Asp Asp Asp Ser Gly Asp Gly Met Asp Val Ala Gly Leu			
610	615	620	
Asp Ile Glu Thr Ser Phe Ser Ser Ser Ser Thr Leu Val Ala Leu Ser			
625	630	635	640
Val Gly Ser Asn Pro Gln Ser Ser Ser Gly Leu Asp Cys Gly Asn Asp			
645	650	655	
Thr Asp Ile Thr Thr Lys Val Phe Ser Thr Glu Pro His His Ser Glu			
660	665	670	
His Lys Leu Gln Thr Lys Thr Leu Asn Thr Leu His Leu Gln Ser Glu			
675	680	685	
Pro Pro Glu Cys Ser Ile Gly Gly Asn Asn Leu Glu Asn Ser Leu Cys			
690	695	700	
Ala Leu Ser Pro Glu Leu Gly Ala Ser Asn Phe Asn Asp Gln Lys Ser			
705	710	715	720
Ser Gly Ile Glu Tyr Thr Lys Val Val Lys Gly Leu Thr Lys Ile His			
725	730	735	
Ser Leu Pro Arg Ser Val Phe Met Lys Ala Thr Lys Asp Gly Gln Cys			
740	745	750	
Glu Ser Gln Asp Pro Arg Ile Glu Leu Thr Leu Asn Lys Pro Asp Phe			
755	760	765	
Thr Ser Leu Ile Gly Ser Gln Ala Ala Leu Ile Lys Ser Gly Leu Gly			
770	775	780	
Phe Val Lys Ser Thr Ser Trp His His Ser Asp Leu Leu Arg Lys Gly			
785	790	795	800
Gly Glu Glu Ser Leu Arg Ala Lys Ser Glu His Glu Gln Lys Thr Ser			

805 810 815
His Gln Leu Gln Lys Ala Met Pro Phe Leu Gln Asn Arg Gly Pro Thr
820 825 830
Pro Lys Pro Asp Leu Leu Arg Glu Asn Asn Asn Pro Val Glu Phe Lys
835 840 845
Thr Thr Ala Ser Val Leu Pro Asn Gln Val Ser Val Ile Thr Lys Gln
850 855 860
Thr Arg Pro Glu Lys Val Gln Ser Ala Lys Leu Glu His Leu Arg Pro
865 870 875 880
His Arg Val Glu Pro Thr Leu Val Thr Glu Asn Ser Gly Asn Lys Thr
885 890 895
Gly Met Ser Thr Ile Ala Lys Cys Asp Gly Glu Arg Asp Asp Thr Thr
900 905 910
Gln Asn Ile Thr Glu Val Ala Ala Val Lys Ser Ile Ser Pro Glu Val
915 920 925
Ser Ala Ser Arg Arg Lys Leu Asp Phe Asn Ser Pro Gly Gly Ser Ser
930 935 940
Pro Val Glu Asn Ser Asp Cys Ser Thr Asn Ser Arg Leu Ser Phe Ser
945 950 955 960
Pro Glu Asn Ile Leu Ile Gln Asn Gln Asp Ile Val Arg Glu Ala Ala
965 970 975
Val Gln Gly Asp Gly Gln Lys Gln Arg Gln Pro Gln Ala Thr Asp Leu
980 985 990
Asp Ser Ser Gly Thr His Gly Ser Glu Met Leu Pro Ala Thr Glu Val
995 1000 1005
Thr Val Ser Gly Gly Phe Ser Val Glu Glu Thr Ser Cys Gly Asp Thr
1010 1015 1020
Gly Arg Ser Gly Gly Glu Ala Leu Ala Val Ala Asn Asp Ser Thr Ser
1025 1030 1035 1040

Thr Pro Gln Asn Ala Asn Gly Leu Trp Lys Leu Lys Ser Thr Thr Pro
 1045 1050 1055
 Gly Gly Ala Leu Pro Glu Cys Phe Gly Thr Thr Asp Thr Thr Phe Ser
 1060 1065 1070
 Ser Ala Phe Cys Arg Lys His Gly Glu Thr Gln Asp Thr Ser Gln Ser
 1075 1080 1085
 Ser Leu His Leu Ser Arg Leu Gly Tyr Thr Pro Val Cys Arg Ala Leu
 1090 1095 1100
 His Ser Leu Leu Leu Arg Leu Leu Ala Gln Asp Gln Gly Gln Gly Ala
 1105 1110 1115 1120
 Pro Leu Leu Glu Pro Ala Pro
 1125

<210> 2298

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2298

Met Ser Asp Gly Leu Val Ala Leu Glu Val Thr Ser Leu Lys Leu Cys
 1 5 10 15
 Ser Glu Ala Leu Leu Ser Gly Gly Leu Val Ala Leu Glu Val Thr Ala
 20 25 30
 Leu Lys Leu Cys Ser Val Thr Leu Ala Ser Gly Gly Leu Val Ala Leu
 35 40 45
 Glu Val Thr Ala Leu Lys Leu Cys Ser Val Ala Leu Met Ser Asp Gly
 50 55 60
 Leu Val Ala Leu Glu Val Thr Ser Leu Lys Leu Cys Ser Val Ala Leu

65 70 75 80
 Leu Ser Gly Gly Leu Val Ala Leu Glu Val Thr Ser Leu Lys Leu Cys
 85 90 95
 Ser Val Ala Ser Leu Ser Val Gly Leu Val Ala Leu Glu Val Thr Ser
 100 105 110
 Leu Lys Leu Cys Ser Val Ala Leu Leu Ser Gly Gly Leu Val Val Ser
 115 120 125
 Phe Phe Gly Cys Gly Gln Trp Leu His Val Gln Leu Gly Gly Trp Pro
 130 135 140
 Leu
 145

<210> 2299

<211> 1349

<212> PRT

<213> Homo sapiens

<400> 2299

Met Ser Ala Pro Val Gly Pro Arg Gly Arg Leu Ala Pro Ile Pro Ala
 1 5 10 15
 Ala Ser Gln Pro Pro Leu Gln Pro Glu Met Pro Asp Leu Ser His Leu
 20 25 30
 Thr Glu Glu Glu Arg Lys Ile Ile Leu Ala Val Met Asp Arg Gln Lys
 35 40 45
 Lys Glu Glu Glu Lys Glu Gln Ser Val Leu Lys Lys Leu His Gln Gln
 50 55 60
 Phe Glu Met Tyr Lys Glu Gln Val Lys Lys Met Gly Glu Glu Ser Gln
 65 70 75 80

Gln Gln Gln Glu Gln Lys Gly Asp Ala Pro Thr Cys Gly Ile Cys His
85 90 95
Lys Thr Lys Phe Ala Asp Gly Cys Gly His Asn Cys Ser Tyr Cys Gln
100 105 110
Thr Lys Phe Cys Ala Arg Cys Gly Gly Arg Val Ser Leu Arg Ser Asn
115 120 125
Lys Val Met Trp Val Cys Asn Leu Cys Arg Lys Gln Gln Glu Ile Leu
130 135 140
Thr Lys Ser Gly Ala Trp Phe Tyr Asn Ser Gly Ser Asn Thr Pro Gln
145 150 155 160
Gln Pro Asp Gln Lys Val Leu Arg Gly Leu Arg Asn Glu Glu Ala Pro
165 170 175
Gln Glu Lys Lys Pro Lys Leu His Glu Gln Thr Gln Phe Gln Gly Pro
180 185 190
Ser Gly Asp Leu Ser Val Pro Ala Val Glu Lys Ser Arg Ser His Gly
195 200 205
Leu Thr Arg Gln His Ser Ile Lys Asn Gly Ser Gly Val Lys His His
210 215 220
Ile Ala Ser Asp Ile Ala Ser Asp Arg Lys Arg Ser Pro Ser Val Ser
225 230 235 240
Arg Asp Gln Asn Arg Arg Tyr Asp Gln Arg Glu Glu Arg Glu Glu Tyr
245 250 255
Ser Gln Tyr Ala Thr Ser Asp Thr Ala Met Pro Arg Ser Pro Ser Asp
260 265 270
Tyr Ala Asp Arg Arg Ser Gln His Glu Pro Gln Phe Tyr Glu Asp Ser
275 280 285
Asp His Leu Ser Tyr Arg Asp Ser Asn Arg Arg Ser His Arg His Ser
290 295 300
Lys Glu Tyr Ile Val Asp Asp Glu Asp Val Glu Ser Arg Asp Glu Tyr

305 310 315 320
Glu Arg Gln Arg Arg Glu Glu Glu Tyr Gln Ser Arg Tyr Arg Ser Asp
 325 330 335
Pro Asn Leu Ala Arg Tyr Pro Val Lys Pro Gln Pro Tyr Glu Glu Gln
 340 345 350
Met Arg Ile His Ala Glu Val Ser Arg Ala Arg His Glu Arg Arg His
 355 360 365
Ser Asp Val Ser Leu Ala Asn Ala Asp Leu Glu Asp Ser Arg Ile Ser
 370 375 380
Met Leu Arg Met Asp Arg Pro Ser Arg Gln Arg Ser Ile Ser Glu Arg
385 390 395 400
Arg Ala Ala Met Glu Asn Gln Arg Ser Tyr Ser Met Glu Arg Thr Arg
 405 410 415
Glu Ala Gln Gly Pro Ser Ser Tyr Ala Gln Arg Thr Thr Asn His Ser
 420 425 430
Pro Pro Thr Pro Arg Arg Ser Pro Leu Pro Ile Asp Arg Pro Asp Leu
 435 440 445
Arg Arg Thr Asp Ser Leu Arg Lys Gln His His Leu Asp Pro Ser Ser
 450 455 460
Ala Val Arg Lys Thr Lys Arg Glu Lys Met Glu Thr Met Leu Arg Asn
465 470 475 480
Asp Ser Leu Ser Ser Asp Gln Ser Glu Ser Val Arg Pro Pro Pro Pro
 485 490 495
Lys Pro His Lys Ser Lys Lys Gly Gly Lys Met Arg Gln Ile Ser Leu
 500 505 510
Ser Ser Ser Glu Glu Glu Leu Ala Ser Thr Pro Glu Tyr Thr Ser Cys
 515 520 525
Asp Asp Val Glu Ile Glu Ser Glu Ser Val Ser Glu Lys Gly Asp Met
 530 535 540

Asp Tyr Asn Trp Leu Asp His Thr Ser Trp His Ser Ser Glu Ala Ser
545 550 555 560
Pro Met Ser Leu His Pro Val Thr Trp Gln Pro Ser Lys Asp Gly Asp
565 570 575
Arg Leu Ile Gly Arg Ile Leu Leu Asn Lys Arg Leu Lys Asp Gly Ser
580 585 590
Val Pro Arg Asp Ser Gly Ala Met Leu Gly Leu Lys Val Val Gly Gly
595 600 605
Lys Met Thr Glu Ser Gly Arg Leu Cys Ala Phe Ile Thr Lys Val Lys
610 615 620
Lys Gly Ser Leu Ala Asp Thr Val Gly His Leu Arg Pro Gly Asp Glu
625 630 635 640
Val Leu Glu Trp Asn Gly Arg Leu Leu Gln Gly Ala Thr Phe Glu Glu
645 650 655
Val Tyr Asn Ile Ile Leu Glu Ser Lys Pro Glu Pro Gln Val Glu Leu
660 665 670
Val Val Ser Arg Pro Ile Gly Asp Ile Pro Arg Ile Pro Asp Ser Thr
675 680 685
His Ala Gln Leu Glu Ser Ser Ser Ser Ser Phe Glu Ser Gln Lys Met
690 695 700
Asp Arg Pro Ser Ile Ser Val Thr Ser Pro Met Ser Pro Gly Met Leu
705 710 715 720
Arg Asp Val Pro Gln Phe Leu Ser Gly Gln Leu Ser Ser Gln Ser Leu
725 730 735
Ser Arg Arg Thr Thr Pro Phe Val Pro Arg Val Gln Ile Lys Leu Trp
740 745 750
Phe Asp Lys Val Gly His Gln Leu Ile Val Thr Ile Leu Gly Ala Lys
755 760 765
Asp Leu Pro Ser Arg Glu Asp Gly Arg Pro Arg Asn Pro Tyr Val Lys

770 775 780
Ile Tyr Phe Leu Pro Asp Arg Ser Asp Lys Asn Lys Arg Arg Thr Lys
785 790 795 800
Thr Val Lys Lys Thr Leu Glu Pro Lys Trp Asn Gln Thr Phe Ile Tyr
805 810 815
Ser Pro Val His Arg Arg Glu Phe Arg Glu Arg Met Leu Glu Ile Thr
820 825 830
Leu Trp Asp Gln Ala Arg Val Arg Glu Glu Glu Ser Glu Phe Leu Gly
835 840 845
Glu Ile Leu Ile Glu Leu Glu Thr Ala Leu Leu Asp Asp Glu Pro His
850 855 860
Trp Tyr Lys Leu Gln Thr His Asp Val Ser Ser Leu Pro Leu Pro His
865 870 875 880
Pro Ser Pro Tyr Val Pro Arg Arg Gln Leu His Gly Glu Ser Pro Thr
885 890 895
Arg Arg Leu Gln Arg Ser Lys Arg Ile Ser Asp Ser Glu Val Ser Asp
900 905 910
Tyr Asp Cys Asp Asp Gly Ile Gly Val Val Ser Asp Tyr Arg His Asp
915 920 925
Gly Arg Asp Leu Gln Ser Ser Thr Leu Ser Val Pro Glu Gln Val Met
930 935 940
Ser Ser Asn His Cys Ser Pro Ser Gly Ser Pro His Arg Val Asp Val
945 950 955 960
Ile Gly Arg Thr Arg Ser Trp Ser Pro Ser Val Pro Pro Pro Gln Ser
965 970 975
Arg Asn Val Glu Gln Gly Leu Arg Gly Thr Arg Thr Met Thr Gly His
980 985 990
Tyr Asn Thr Ile Ser Arg Met Asp Arg His Arg Val Met Asp Asp His
995 1000 1005

Tyr Ser Pro Asp Arg Asp Arg Asp Cys Glu Ala Ala Asp Arg Gln Pro
 1010 1015 1020
 Tyr His Arg Ser Arg Ser Thr Glu Gln Arg Pro Leu Leu Glu Arg Thr
 1025 1030 1035 1040
 Thr Thr Arg Ser Arg Ser Thr Glu Arg Pro Asp Thr Asn Leu Met Arg
 1045 1050 1055
 Ser Met Pro Ser Leu Met Thr Gly Arg Ser Ala Pro Pro Ser Pro Ala
 1060 1065 1070
 Leu Ser Arg Ser His Pro Arg Thr Gly Ser Val Gln Thr Ser Pro Ser
 1075 1080 1085
 Ser Thr Pro Val Ala Gly Arg Arg Gly Arg Gln Leu Pro Gln Leu Pro
 1090 1095 1100
 Pro Lys Gly Thr Leu Asp Arg Lys Ala Gly Gly Lys Lys Leu Arg Ser
 1105 1110 1115 1120
 Thr Val Gln Arg Ser Thr Glu Thr Gly Leu Ala Val Glu Met Arg Asn
 1125 1130 1135
 Trp Met Thr Arg Gln Ala Ser Arg Glu Ser Thr Asp Gly Ser Met Asn
 1140 1145 1150
 Ser Tyr Ser Ser Glu Gly Asn Leu Ile Phe Pro Gly Val Arg Leu Ala
 1155 1160 1165
 Ser Asp Ser Gln Phe Ser Asp Phe Leu Asp Gly Leu Gly Pro Ala Gln
 1170 1175 1180
 Leu Val Gly Arg Gln Thr Leu Ala Thr Pro Ala Met Gly Asp Ile Gln
 1185 1190 1195 1200
 Val Gly Met Met Asp Lys Lys Gly Gln Leu Glu Val Glu Ile Ile Arg
 1205 1210 1215
 Ala Arg Gly Leu Val Val Lys Pro Gly Ser Lys Thr Leu Pro Ala Pro
 1220 1225 1230
 Tyr Val Lys Val Tyr Leu Leu Asp Asn Gly Val Cys Ile Ala Lys Lys

1235 1240 1245
 Lys Thr Lys Val Ala Arg Lys Thr Leu Glu Pro Leu Tyr Gln Gln Leu
 1250 1255 1260
 Leu Ser Phe Glu Glu Ser Pro Gln Gly Lys Val Leu Gln Ile Ile Val
 1265 1270 1275 1280
 Trp Gly Asp Tyr Gly Arg Met Asp His Lys Ser Phe Met Gly Val Ala
 1285 1290 1295
 Gln Ile Leu Leu Asp Glu Leu Glu Leu Ser Asn Met Val Ile Gly Trp
 1300 1305 1310
 Phe Lys Leu Phe Pro Pro Ser Ser Leu Val Asp Pro Thr Leu Ala Pro
 1315 1320 1325
 Leu Thr Arg Arg Ala Ser Gln Ser Ser Leu Glu Ser Ser Thr Gly Pro
 1330 1335 1340
 Ser Tyr Ser Arg Ser
 1345

<210> 2300

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2300

Met Ala Glu Lys Val Asn Asn Phe Pro Pro Leu Pro Lys Phe Ile Pro
 1 5 10 15
 Leu Lys Pro Cys Phe Tyr Gln Asp Phe Glu Ala Asp Ile Pro Pro Gln
 20 25 30
 His Val Ser Met Thr Lys Arg Leu Tyr Tyr Leu Trp Met Leu Asn Ser
 35 40 45

Val Thr Leu Ala Val Asn Leu Val Gly Cys Leu Ala Trp Leu Ile Gly
50 55 60
Gly Gly Gly Ala Thr Asn Phe Gly Leu Ala Phe Leu Trp Leu Ile Leu
65 70 75 80
Phe Thr Pro Cys Ser Tyr Val Cys Trp Phe Arg Pro Ile Tyr Lys Ala
85 90 95
Phe Lys Thr Asp Ser Ser Phe Ser Phe Met Ala Phe Phe Phe Thr Phe
100 105 110
Met Ala Gln Leu Val Ile Ser Ile Ile Gln Ala Val Gly Ile Pro Gly
115 120 125
Trp Gly Val Cys Gly Trp Ile Ala Thr Ile Ser Phe Phe Gly Thr Asn
130 135 140
Ile Gly Ser Ala Val Val Met Leu Ile Pro Thr Val Met Phe Thr Val
145 150 155 160
Met Ala Val Phe Ser Phe Ile Ala Leu Ser Met Val His Lys Phe Tyr
165 170 175
Arg Gly Ser Gly Gly Ser Phe Ser Lys Ala Gln Glu Glu Trp Thr Thr
180 185 190
Gly Ala Trp Lys Asn Pro His Val Gln Gln Ala Ala Gln Asn Ala Ala
195 200 205
Met Gly Ala Ala Gln Gly Ala Met Asn Gln Pro Gln Thr Gln Tyr Ser
210 215 220
Ala Thr Pro Asn Tyr Thr Tyr Ser Asn Glu Met
225 230 235

<210> 2301

<211> 225

<212> PRT

<213> Homo sapiens

<400> 2301

Met	Gln	Lys	Leu	Pro	Glu	Ala	Val	Gln	Leu	Ile	Glu	Lys	Ala	Ser	Met
1				5					10					15	
Met	Tyr	Leu	Glu	Asn	Gly	Thr	Pro	Asp	Thr	Ala	Ala	Met	Ala	Leu	Glu
			20					25					30		
Arg	Ala	Gly	Lys	Leu	Ile	Glu	Asn	Val	Asp	Pro	Glu	Lys	Ala	Val	Gln
		35					40						45		
Leu	Tyr	Gln	Gln	Thr	Ala	Asn	Val	Phe	Glu	Asn	Glu	Glu	Arg	Leu	Arg
	50					55					60				
Gln	Ala	Val	Glu	Leu	Leu	Gly	Lys	Ala	Ser	Arg	Leu	Leu	Val	Arg	Gly
65				70					75					80	
Arg	Arg	Phe	Asp	Glu	Ala	Ala	Leu	Ser	Ile	Gln	Lys	Glu	Lys	Asn	Ile
			85						90					95	
Tyr	Lys	Glu	Ile	Glu	Asn	Tyr	Pro	Thr	Cys	Tyr	Lys	Lys	Thr	Ile	Ala
		100						105					110		
Gln	Val	Leu	Val	His	Leu	His	Arg	Asn	Asp	Tyr	Val	Ala	Ala	Glu	Arg
		115					120						125		
Cys	Val	Arg	Glu	Ser	Tyr	Ser	Ile	Pro	Gly	Phe	Asn	Gly	Ser	Glu	Asp
	130						135					140			
Cys	Ala	Ala	Leu	Glu	Gln	Leu	Leu	Glu	Gly	Tyr	Asp	Gln	Gln	Asp	Gln
145				150					155					160	
Asp	Gln	Val	Ser	Asp	Val	Cys	Asn	Ser	Pro	Leu	Phe	Lys	Tyr	Met	Asp
			165						170					175	
Asn	Asp	Tyr	Ala	Lys	Leu	Gly	Leu	Ser	Leu	Val	Val	Pro	Gly	Gly	Gly
		180						185					190		
Ile	Lys	Lys	Lys	Ser	Pro	Ala	Thr	Pro	Gln	Ala	Lys	Pro	Asp	Gly	Val
		195						200					205		

Thr Ala Thr Ala Ala Asp Glu Glu Glu Asp Glu Tyr Ser Gly Gly Leu
 210 215 220 -

Cys

225

<210> 2302

<211> 1042

<212> PRT

<213> Homo sapiens

<400> 2302

Met Asp Lys Ile Leu Glu Gly Leu Val Ser Ser Ser His Pro Leu Pro
 1 5 10 15

Leu Lys Arg Val Ile Val Arg Lys Val Val Glu Ser Ala Glu His Trp
 20 25 30

Leu Asp Glu Ala Gln Cys Glu Ala Met Phe Asp Leu Thr Thr Arg Leu
 35 40 45

Ile Leu Glu Gly Gln Asp Pro Phe Gln Arg Gln Val Gly His Gln Val
 50 55 60

Leu Glu Ala Tyr Ala Arg Tyr His Arg Pro Glu Phe Glu Ser Phe Phe
 65 70 75 80

Asn Lys Thr Phe Val Leu Gly Leu Leu His Gln Gly Tyr His Ser Leu
 85 90 95

Asp Arg Lys Asp Val Ala Ile Leu Asp Tyr Ile His Asn Gly Leu Lys
 100 105 110

Leu Ile Met Ser Cys Pro Ser Val Leu Asp Leu Phe Ser Leu Leu Gln
 115 120 125

Val Glu Val Leu Arg Met Val Cys Glu Arg Pro Glu Pro Gln Leu Cys

130 135 140
Ala Arg Leu Ser Asp Leu Leu Thr Asp Phe Val Gln Cys Ile Pro Lys
145 150 155 160
Gly Lys Leu Ser Ile Thr Phe Cys Gln Gln Leu Val Arg Thr Ile Gly
165 170 175
His Phe Gln Cys Val Ser Thr Gln Glu Arg Glu Leu Arg Glu Tyr Val
180 185 190
Ser Gln Val Thr Lys Val Ser Asn Leu Leu Gln Asn Ile Trp Lys Ala
195 200 205
Glu Pro Ala Thr Leu Leu Pro Ser Leu Gln Glu Val Phe Ala Ser Ile
210 215 220
Ser Ser Thr Asp Ala Ser Phe Glu Pro Ser Val Ala Leu Ala Ser Leu
225 230 235 240
Val Gln His Ile Pro Leu Gln Met Ile Thr Val Leu Ile Arg Ser Leu
245 250 255
Thr Thr Asp Pro Asn Val Lys Asp Ala Ser Met Thr Gln Ala Leu Cys
260 265 270
Arg Met Ile Asp Trp Leu Ser Trp Pro Leu Ala Gln His Val Asp Thr
275 280 285
Trp Val Ile Ala Leu Leu Lys Gly Leu Ala Ala Val Gln Lys Phe Thr
290 295 300
Ile Leu Ile Asp Val Thr Leu Leu Lys Ile Glu Leu Val Phe Asn Arg
305 310 315 320
Leu Trp Phe Pro Leu Val Arg Pro Gly Ala Leu Ala Val Leu Ser His
325 330 335
Met Leu Leu Ser Phe Gln His Ser Pro Glu Ala Phe His Leu Ile Val
340 345 350
Pro His Val Val Asn Leu Val His Ser Phe Lys Asn Asp Gly Leu Pro
355 360 365

Ser Ser Thr Ala Phe Leu Val Gln Leu Thr Glu Leu Ile His Cys Met
370 375 380
Met Tyr His Tyr Ser Gly Phe Pro Asp Leu Tyr Glu Pro Ile Leu Glu
385 390 395 400
Ala Ile Lys Asp Phe Pro Lys Pro Ser Glu Glu Lys Ile Lys Leu Ile
405 410 415
Leu Asn Gln Ser Ala Trp Thr Ser Gln Ser Asn Ser Leu Ala Ser Cys
420 425 430
Leu Ser Arg Leu Ser Gly Lys Ser Glu Thr Gly Lys Thr Gly Leu Ile
435 440 445
Asn Leu Gly Asn Thr Cys Tyr Met Asn Ser Val Ile Gln Ala Leu Phe
450 455 460
Met Ala Thr Asp Phe Arg Arg Gln Val Leu Ser Leu Asn Leu Asn Gly
465 470 475 480
Cys Asn Ser Leu Met Lys Lys Leu Gln His Leu Phe Ala Phe Leu Ala
485 490 495
His Thr Gln Arg Glu Ala Tyr Ala Pro Arg Ile Phe Phe Glu Ala Ser
500 505 510
Arg Pro Pro Trp Phe Thr Pro Arg Ser Gln Gln Asp Cys Ser Glu Tyr
515 520 525
Leu Arg Phe Leu Leu Asp Arg Leu His Glu Glu Glu Lys Ile Leu Lys
530 535 540
Val Gln Ala Ser His Lys Pro Ser Glu Ile Leu Glu Cys Ser Glu Thr
545 550 555 560
Ser Leu Gln Glu Val Ala Ser Lys Ala Ala Val Leu Thr Glu Thr Pro
565 570 575
Arg Thr Ser Asp Gly Glu Lys Thr Leu Ile Glu Lys Met Phe Gly Gly
580 585 590
Lys Leu Arg Thr His Ile Arg Cys Leu Asn Cys Arg Ser Thr Ser Gln

595 600 605
Lys Val Glu Ala Phe Thr Asp Leu Ser Leu Ala Phe Cys Pro Ser Ser
610 615 620
Ser Leu Glu Asn Met Ser Val Gln Asp Pro Ala Ser Ser Pro Ser Ile
625 630 635 640
Gln Asp Gly Gly Leu Met Gln Ala Ser Val Pro Gly Pro Ser Glu Glu
645 650 655
Pro Val Val Tyr Asn Pro Thr Thr Ala Ala Phe Ile Cys Asp Ser Leu
660 665 670
Val Asn Glu Lys Thr Ile Gly Ser Pro Pro Asn Glu Phe Tyr Cys Ser
675 680 685
Glu Asn Thr Ser Val Pro Asn Glu Ser Asn Lys Ile Leu Val Asn Lys
690 695 700
Asp Val Pro Gln Lys Pro Gly Gly Glu Thr Thr Pro Ser Val Thr Asp
705 710 715 720
Leu Leu Asn Tyr Phe Leu Ala Pro Glu Ile Leu Thr Gly Asp Asn Gln
725 730 735
Tyr Tyr Cys Glu Asn Cys Ala Ser Leu Gln Asn Ala Glu Lys Thr Met
740 745 750
Gln Ile Thr Glu Glu Pro Glu Tyr Leu Ile Leu Thr Leu Leu Arg Phe
755 760 765
Ser Tyr Asp Gln Lys Tyr His Val Arg Arg Lys Ile Leu Asp Asn Val
770 775 780
Ser Leu Pro Leu Val Leu Glu Leu Pro Val Lys Arg Ile Thr Ser Phe
785 790 795 800
Ser Ser Leu Ser Glu Ser Trp Ser Val Asp Val Asp Phe Thr Asp Leu
805 810 815
Ser Glu Asn Leu Ala Lys Lys Leu Lys Pro Ser Gly Thr Asp Glu Ala
820 825 830

Ser Cys Thr Lys Leu Val Pro Tyr Leu Leu Ser Ser Val Val Val His
835 840 845

Ser Gly Ile Ser Ser Glu Ser Gly His Tyr Tyr Ser Tyr Ala Arg Asn
850 855 860

Ile Thr Ser Thr Asp Ser Ser Tyr Gln Met Tyr His Gln Ser Glu Ala
865 870 875 880

Leu Ala Leu Ala Ser Ser Gln Ser His Leu Leu Gly Arg Asp Ser Pro
885 890 895

Ser Ala Val Phe Glu Gln Asp Leu Glu Asn Lys Glu Met Ser Lys Glu
900 905 910

Trp Phe Leu Phe Asn Asp Ser Arg Val Thr Phe Thr Ser Phe Gln Ser
915 920 925

Val Gln Lys Ile Thr Ser Arg Phe Pro Lys Asp Thr Ala Tyr Val Leu
930 935 940

Leu Tyr Lys Lys Gln His Ser Thr Asn Gly Leu Ser Gly Asn Asn Pro
945 950 955 960

Thr Ser Gly Leu Trp Ile Asn Gly Asp Pro Pro Leu Gln Lys Glu Leu
965 970 975

Met Asp Ala Ile Thr Lys Asp Asn Lys Leu Tyr Leu Gln Glu Gln Glu
980 985 990

Leu Asn Ala Arg Ala Arg Ala Leu Gln Ala Ala Ser Ala Ser Cys Ser
995 1000 1005

Phe Arg Pro Asn Gly Phe Asp Asp Asn Asp Pro Pro Gly Ser Cys Gly
1010 1015 1020

Pro Thr Gly Gly Gly Gly Gly Gly Gly Phe Asn Thr Val Gly Arg Leu
1025 1030 1035 1040

Val Phe

<210> 2303

<211> 526

<212> PRT

<213> Homo sapiens

<400> 2303

Met Arg Pro Ala Cys Glu Gln Ile Tyr Asn Leu Phe His Ala Ala Asp

1 5 10 15

Pro Cys Ala Ser Arg Leu Glu Pro Leu Leu Ala Pro Lys Phe Gln Ala

20 25 30

Ile Ala Pro Leu Thr Val Pro Arg Tyr Gln Lys Phe Pro Leu Gly Asp

35 40 45

Gly Ser Ser Leu Leu Leu Ala Asp Thr Leu Gln Thr His Ser Ser Leu

50 55 60

Phe Leu Glu Glu Leu Glu Met Leu Val Pro Ser Thr Pro Thr Ser Thr

65 70 75 80

Ser Gly Ala Phe Trp Lys Gly Ser Glu Leu Ala Thr Asp Pro Pro Ala

85 90 95

Gln Pro Ala Ala Pro Ser Thr Thr Ser Glu Val Val Lys Ile Leu Glu

100 105 110

Arg Trp Trp Gly Thr Lys Arg Ile Asp Tyr Ser Leu Tyr Arg Pro Glu

115 120 125

Ala Leu Thr Ala Phe Pro Thr Val Thr Leu Pro His Leu Phe His Ala

130 135 140

Ser Tyr Trp Glu Ser Ala Asp Val Val Ala Phe Ile Leu Arg Gln Val

145 150 155 160

Ile Glu Lys Glu Arg Pro Gln Leu Ala Glu Cys Glu Glu Pro Ser Ile

165 170 175

Tyr Ser Pro Ala Phe Pro Arg Glu Lys Trp Gln Arg Lys Arg Thr Gln
 180 185 190
 Val Lys Ile Arg Asn Val Thr Ser Asn His Arg Ala Ser Asp Thr Val
 195 200 205
 Val Cys Glu Gly Arg Pro Gln Val Leu Ser Gly Arg Phe Met Tyr Gly
 210 215 220
 Pro Leu Asp Val Val Thr Leu Thr Gly Glu Lys Val Asp Val Tyr Ile
 225 230 235 240
 Met Thr Gln Pro Leu Ser Gly Lys Trp Ile His Phe Gly Thr Glu Val
 245 250 255
 Thr Asn Ser Ser Gly Arg Leu Thr Phe Pro Val Pro Pro Glu Arg Ala
 260 265 270
 Leu Gly Ile Gly Val Tyr Pro Val Arg Met Val Val Arg Gly Asp His
 275 280 285
 Thr Tyr Ala Glu Cys Cys Leu Thr Val Val Ala Arg Gly Thr Glu Ala
 290 295 300
 Val Val Phe Ser Ile Asp Gly Ser Phe Thr Ala Ser Val Ser Ile Met
 305 310 315 320
 Gly Ser Asp Pro Lys Val Arg Ala Gly Ala Val Asp Val Val Arg His
 325 330 335
 Trp Gln Asp Ser Gly Tyr Leu Ile Val Tyr Val Thr Gly Arg Pro Asp
 340 345 350
 Met Gln Lys His Arg Val Val Ala Trp Leu Ser Gln His Asn Phe Pro
 355 360 365
 His Gly Val Val Ser Phe Cys Asp Gly Leu Thr His Asp Pro Leu Arg
 370 375 380
 Gln Lys Ala Met Phe Leu Gln Ser Leu Val Gln Glu Val Glu Leu Asn
 385 390 395 400
 Ile Val Ala Gly Tyr Gly Ser Pro Lys Asp Val Ala Val Tyr Ala Ala

<210> 2304

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2304

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Val His Leu Ser Gln Cys Ala Pro Cys Leu Ala Cys Thr Ser Thr Tyr
 50 55 60
 Met His Leu Ser Trp His Ala Pro Glu Leu Ala Cys Thr Ser Ala Cys
 65 70 75 80
 Met His Leu Ser Gln Arg Ala Pro Tyr Leu Ala Cys Thr Ser Ala Tyr
 85 90 95
 Met His Leu Ser Trp Cys Ala Pro Glu Leu Ala Cys Thr Ser Ala Cys
 100 105 110
 Met His Leu Ser Trp Arg Ala Pro Glu Leu Ala Cys Ile
 115 120 125

<210> 2305

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2305

Met His His Ala Asn Gln Gly Cys Arg Leu Leu Thr Ser Phe Gln Pro
 1 5 10 15
 Ala Gln Pro Pro Ser Pro Leu Ser Trp Ala Glu Leu Arg Ser Ala Ser
 20 25 30
 Gly Glu Thr Arg Asp Pro Tyr Gly Ser Ser Ser Ala Trp Met Glu Ser
 35 40 45
 Pro Ala Cys Cys Leu Arg Glu Arg Ser Ala Pro Gln Pro Gly Asp Ile
 50 55 60
 Ala Arg Leu Pro Leu Pro Ala Ser Ala Ser Lys Val Ala Ala Phe Pro
 65 70 75 80
 Gly Thr Arg Ala Cys Phe Ser Arg Ala Leu Leu Lys Ile Ser Ser Ala

85 90 95
 Gly Pro Tyr Gly Arg Thr Thr Val
 100

<210> 2306

<211> 249

<212> PRT

<213> Homo sapiens

<400> 2306

Met Glu Lys Lys Asp Cys Pro Arg Asn His Ser His Thr Arg Asn Phe
 1 5 10 15
 Tyr Tyr Ile Thr Met Leu Arg Asp Pro Val Ser Arg Tyr Leu Ser Glu
 20 25 30
 Trp Lys His Val Gln Arg Gly Ala Thr Trp Lys Thr Ser Leu His Met
 35 40 45
 Cys Asp Gly Arg Ser Pro Thr Pro Asp Glu Leu Pro Thr Cys Tyr Pro
 50 55 60
 Gly Asp Asp Trp Ser Gly Val Ser Leu Arg Glu Phe Met Asp Cys Thr
 65 70 75 80
 Tyr Asn Leu Ala Asn Asn Arg Gln Val Arg Met Leu Ala Asp Leu Ser
 85 90 95
 Leu Val Gly Cys Tyr Asn Leu Thr Phe Met Asn Glu Ser Glu Arg Asn
 100 105 110
 Thr Ile Leu Leu Gln Ser Ala Lys Asn Asn Leu Lys Asn Met Ala Phe
 115 120 125
 Phe Gly Leu Thr Glu Phe Gln Arg Lys Thr Gln Phe Leu Phe Glu Arg
 130 135 140

Thr Phe Asn Leu Lys Phe Ile Ser Pro Phe Thr Gln Phe Asn Ile Thr
 145 150 155 160
 Arg Ala Ser Asn Val Glu Ile Asn Glu Gly Ala Arg Gln Arg Ile Glu
 165 170 175
 Asp Leu Asn Phe Leu Asp Met Gln Leu Tyr Glu Tyr Ala Lys Asp Leu
 180 185 190
 Phe Gln Gln Arg Tyr His His Thr Lys Gln Leu Glu His Gln Arg Asp
 195 200 205
 Arg Gln Lys Arg Arg Glu Glu Arg Arg Leu Gln Arg Glu His Arg Asp
 210 215 220
 His Gln Trp Pro Lys Glu Asp Gly Ala Ala Glu Gly Thr Val Thr Glu
 225 230 235 240
 Asp Tyr Asn Ser Gln Val Val Arg Trp
 245

<210> 2307

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2307

Met Asp His Thr Gly Ala Ile Asp Thr Glu Asp Glu Val Gly Pro Leu
 1 5 10 15
 Ala His Leu Ala Pro Cys Pro Gln Ser Glu Ala Val Ala His Glu Phe
 20 25 30
 Gln Glu Leu Ser Leu Gln Ser Ser Gln Asn Leu Pro Pro Leu Asn Glu
 35 40 45
 Arg Lys Asn Gly Glu Phe Ser Met Cys Asn Gly Ile Phe Asp Leu Lys

50 55 60
 Ile Ser Pro Leu Trp Glu Pro Ser Leu Phe Leu Phe Gly Ser Asn Ile
 65 70 75 80
 Leu Val Ser Ser Ala Val Cys His Gly Gly Glu Pro Cys Arg Gly Thr
 85 90 95
 Gly Trp Phe Leu Ile Thr Gly Arg Ile Ser Leu Ser Ile Gln Phe Phe
 100 105 110
 His Tyr Phe Pro Ser Lys Tyr Leu Trp
 115 120

<210> 2308

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2308

Met Pro Ala Asn Glu Asp Ala Pro Gln Pro Gly Glu His Gly Ser Ala
 1 5 10 15
 Cys Glu Val Ser Val Ser Phe Glu Asp Val Thr Val Asp Phe Ser Arg
 20 25 30
 Glu Glu Trp Gln Gln Leu Asp Ser Thr Gln Arg Arg Leu Tyr Gln Asp
 35 40 45
 Val Met Leu Glu Asn Tyr Ser His Leu Leu Ser Val Gly Phe Glu Val
 50 55 60
 Pro Lys Pro Glu Val Ile Phe Lys Leu Glu Gln Gly Glu Gly Pro Trp
 65 70 75 80
 Thr Leu Glu Gly Glu Ala Pro His Gln Ser Cys Ser Asp Gly Lys Phe
 85 90 95

Gly Ile Lys Pro Ser Gln Arg Arg Ile Ser Gly Lys Ser Thr Phe His

100

105

110

Ser Glu Met Glu Gly Glu Asp Thr Leu Cys

115

120

<210> 2309

<211> 293

<212> PRT

<213> Homo sapiens

<400> 2309

Met Ala Ser Asn Val Thr Asn Lys Thr Asp Pro Arg Ser Met Asn Ser

1

5

10

15

Arg Val Phe Ile Gly Asn Leu Asn Thr Leu Val Val Lys Lys Ser Asp

20

25

30

Val Glu Ala Ile Phe Ser Lys Tyr Gly Lys Ile Val Gly Cys Ser Val

35

40

45

His Lys Gly Phe Ala Phe Val Gln Tyr Val Asn Glu Arg Asn Ala Arg

50

55

60

Ala Ala Val Ala Gly Glu Asp Gly Arg Met Ile Ala Gly Gln Val Leu

65

70

75

80

Asp Ile Asn Leu Ala Ala Glu Pro Lys Val Asn Arg Gly Lys Ala Gly

85

90

95

Val Lys Arg Ser Ala Ala Glu Met Tyr Gly Ser Ser Phe Asp Leu Asp

100

105

110

Tyr Asp Phe Gln Arg Asp Tyr Tyr Asp Arg Met Tyr Ser Tyr Pro Ala

115

120

125

Arg Val Pro Pro Pro Pro Pro Ile Ala Arg Ala Val Val Pro Ser Lys

130 135 140
Arg Gln Arg Val Ser Gly Asn Thr Ser Arg Arg Gly Lys Ser Gly Phe
145 150 155 160
Asn Ser Lys Ser Gly Gln Arg Gly Ser Ser Lys Ser Gly Lys Leu Lys
165 170 175
Gly Asp Asp Leu Gln Ala Ile Lys Lys Glu Leu Thr Gln Ile Lys Gln
180 185 190
Lys Val Asp Ser Leu Pro Glu Asn Leu Glu Lys Ile Glu Lys Glu Gln
195 200 205
Ser Lys Gln Ala Val Glu Met Lys Asn Asp Lys Ser Glu Glu Glu His
210 215 220
Ser Ser Ser Ser Val Lys Lys Asp Glu Thr Asn Val Lys Met Glu Ser
225 230 235 240
Glu Gly Gly Ala Asp Asp Ser Ala Glu Glu Gly Asp Leu Leu Asp Asp
245 250 255
Asp Asp Asn Glu Asp Arg Gly Asp Asp Gln Leu Glu Leu Ile Lys Asp
260 265 270
Asp Glu Lys Glu Ala Glu Glu Gly Glu Asp Asp Arg Asp Ser Ala Asn
275 280 285
Gly Glu Asp Asp Ser
290

<210> 2310

<211> 197

<212> PRT

<213> Homo sapiens

<400> 2310

Met Asn Ala Ile Val Ala Leu Cys His Phe Cys Glu Leu His Gly Pro
 1 5 10 15
 Arg Thr Leu Phe Cys Thr Glu Val Leu His Ala Pro Leu Pro Gln Gly
 20 25 30
 Asp Gly Asn Glu Asp Ser Pro Gly Gln Gly Glu Gln Ala Glu Glu Glu
 35 40 45
 Glu Gly Gly Ile Gln Met Asn Ser Arg Met Arg Ala His Ser Pro Ala
 50 55 60
 Glu Gly Ala Ser Val Glu Ser Ser Ser Pro Gly Pro Lys Lys Ser Asp
 65 70 75 80
 Met Cys Glu Gly Cys Arg Ser Leu Ala Ala Gly His Pro Gly Tyr Ile
 85 90 95
 Ser His Asp Lys Glu Thr Ser Ile Lys Tyr Val Ser His Gln His Pro
 100 105 110
 Ser His Pro Gln Leu Phe Ser Ile Val Arg Gln Ala Cys Val Arg Ser
 115 120 125
 Leu Ser Cys Glu Val Ser Leu Val Ala Thr Glu Pro Val Ser Val Gly
 130 135 140
 Ala His Met Leu Pro Gly Ala Leu Gly Gly Leu Gly Ala Ser Ile Ala
 145 150 155 160
 Gln Gly Gly Arg His Trp Ser Ser Leu Arg Ala Asp Pro Gln Ile Ser
 165 170 175
 Thr Ala Gln Gly Thr Gly Arg Leu Pro Cys Pro Glu Leu Arg Glu Glu
 180 185 190
 Ser Cys Trp Thr Cys
 195

<210> 2311

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2311

Met Ala Leu Val Pro Ser Gly Pro Ile Leu Lys Ala Ser Asp Leu Val

1 5 10 15

Phe Ser Tyr Asp Lys Gly Ala Pro Arg Met Trp Gln Ser Pro Phe Leu

20 25 30

Glu Gly Glu Ser Asp Trp Val Arg Glu Ala Pro Pro Val Cys Arg Ala

35 40 45

Pro Ile Gly Gln Val Gln Cys Pro Lys His Leu Arg Gly Lys Trp Leu

50 55 60

Leu Glu Val Gln Pro Ile Trp Leu Leu Leu Thr Trp Thr Leu Lys Ala

65 70 75 80

Gln Gly His Met Thr Gln Ala Gln Gly Val Thr Thr Ala Cys Arg Lys

85 90 95

Ser His Ser His Ser Ser Glu Glu Ala Val Glu Met Ser Gly

100 105 110

<210> 2312

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2312

Met Val Gly Phe Trp Arg Lys Glu Leu Lys Lys Asp Lys Cys Asn Phe

1 5 10 15

Leu Lys Phe Gln Asp Gln Lys Gly Gln Phe Leu Cys Leu Phe Lys Leu
 20 25 30
 Asn His Lys His Gln Phe Tyr Gly Thr Ile Glu Pro Val Ser Ile Pro
 35 40 45
 Leu Asn Gln Ser Leu Ile Gln Ser Arg Ala Leu Thr Leu Phe Asn Ser
 50 55 60
 Val Lys Ala Glu Ile Gly Glu Glu Thr Gly Glu Glu Lys Phe Glu Ala
 65 70 75 80
 Ser Arg Ser Gly Val Met Lys Phe Lys Val Arg Asn Leu Cys Asn Lys
 85 90 95
 Arg Val Gln Gly Glu Ala Thr Ser Ala Asp Gly Gln Ala Thr Ser Tyr
 100 105 110
 Pro Glu Asp Leu Arg
 115

<210> 2313

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2313

Met Ile Val Tyr Phe Ser Gly Cys Thr Leu His Trp Val Thr Arg Asn
 1 5 10 15
 Thr Val Gly Cys Thr Asp Asp Leu Thr Leu Phe Ser Ile Arg Ala Thr
 20 25 30
 Gly Ser His Ala Asp Phe Cys Lys Val Ile Cys Lys Ser Gln Ser Pro
 35 40 45
 Ala Leu Phe Leu Thr Gly Trp Gln Pro Cys Ser Ser Val Ala Pro Gly

50 55 60
Thr Trp Arg Ser Phe Leu His Leu Arg Leu Ala Arg Ile Leu Gly Leu
65 70 75 80
Val Pro Ala Ala His Arg Val Ser Arg Gly Thr Val Gly Thr Ser His
 85 90 95
Gln Asp Ser Asn His Pro Pro Leu Leu Arg Leu Leu Trp Gln Gly Trp
 100 105 110
Cys Gly Val Gln Pro Leu Leu Arg Gly Gln His Val Pro Ser Lys Ile
 115 120 125
Ser Pro Pro Gly Pro Trp Ala His Pro Arg Gly Ser Leu Leu Leu Tyr
 130 135 140
Trp Val Gln Phe Glu Val Ala Glu Leu Leu Ser Lys Val
145 150 155

<210> 2314

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2314

Met Gln Ile Gln Val Ala Gly Leu Leu Gln Phe Ala Val Pro Leu Phe
1 5 10 15
Ser Thr Ala Glu Glu Asp Leu Leu Ala Ile Gln Leu Leu Leu Asn Ser
 20 25 30
Ser Glu Ser Ser Leu His Gln Leu Thr Ala Met Val Asp Cys Arg Gly
 35 40 45
Leu His Lys Asp Tyr Leu Asp Ala Leu Ala Gly Ile Cys Tyr Asp Gly
50 55 60

Leu Gln Val Leu Leu Tyr Leu Gly Leu Phe Ser Phe Leu Ala Ala Leu
65 70 75 80
Ala Phe Ser Thr Met Ile Cys Ala Gly Pro Arg Ala Trp Lys His Phe
85 90 95
Thr Thr Arg Asn Arg Asp Tyr Asp Asp Ile Asp Asp Asp Asp Pro Phe
100 105 110
Asn Pro Gln Ala Trp Arg Met Ala Ala His Ser Pro Pro Arg Gly Gln
115 120 125
Leu His Ser Phe Cys Ser Tyr Ser Ser Gly Leu Gly Ser Gln Thr Ser
130 135 140
Leu Gln Pro Pro Ala Gln Thr Ile Ser Asn Ala Pro Val Ser Glu Tyr
145 150 155 160
Met Asn Gln Ala Met Leu Phe Gly Arg Asn Pro Arg Tyr Glu Asn Val
165 170 175
Pro Leu Ile Gly Arg Ala Ser Pro Pro Pro Thr Tyr Ser Pro Ser Met
180 185 190
Arg Ala Thr Tyr Leu Ser Val Ala Asp Glu His Leu Arg His Tyr Gly
195 200 205
Asn Gln Phe Pro Ala
210

<210> 2315

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2315

Met Ile Gly Tyr Phe His Leu Trp Ile Pro Gly Phe Ala Ile Leu Thr

1 5 10 15
Lys Pro Leu Tyr Lys Leu Thr Lys Gly Asn Leu Ala Asp Pro Ile Asn
 20 25 30
Pro Lys Ser Phe Pro His Ser Ser Phe His Ser Leu Lys Ile Ala Leu
 35 40 45
Glu Thr Ala Pro Thr Leu Ala Leu Pro Asp Ser Ser Gln Pro Phe Ser
 50 55 60
Leu His Thr Ala Lys Val Gln Gly Cys Ala Val Gly Ile Leu Thr Gln
65 70 75 80
Gly Pro Gly Pro Cys Pro Ile Ala Phe Leu Ser Lys Gln Leu Asp Leu
 85 90 95
Thr Val Leu Gly Trp Pro Ser Cys Leu Cys Ala Val Ala Ala Thr Ala
 100 105 110
Leu Ile Leu Leu Glu Ala Leu Lys Ile Thr Asn Tyr Ala Gln Leu Thr
 115 120 125
Leu Tyr Ser Ser His Asn Phe Gln Asn Leu Phe Ser Ser Ser His Leu
 130 135 140
Met His Ile Leu Ser Ala Ala Leu His Tyr Leu Ser Ala Ser Gln Thr
145 150 155 160
His Cys Leu Asn Ser Ser Pro His Pro Cys Lys Gly Ile Met Cys Gln
 165 170 175
Tyr Leu Tyr

<210> 2316

<211> 392

<212> PRT

<213> Homo sapiens

<400> 2316

Met Arg Ile His Asp Gly Lys Glu Ile Leu Asp Cys Gly Lys Ala Leu
 1 5 10 15
 Ser Gln Cys Gln Ser Phe Asn Ile His Gln Lys Ile His Val Val Gly
 20 25 30
 Asn Val Cys Gln Cys Arg Lys Cys Gly Lys Ala Phe Asn Gln Met Ser
 35 40 45
 Ser Leu Leu Leu His Lys Lys Ile His Asn Gly Lys Lys Thr His Lys
 50 55 60
 Tyr Asn Lys Cys Gly Arg Gly Phe Lys Lys Lys Ser Val Phe Val Val
 65 70 75 80
 His Lys Arg Ile His Ala Gly Glu Lys Ile Pro Glu Asn Ala Lys Ala
 85 90 95
 Leu Ser Gln Ser Leu Gln Gln Arg Ser His His Leu Glu Asn Pro Phe
 100 105 110
 Lys Cys Arg Lys Cys Gly Lys Leu Phe Asn Arg Ile Ser Pro Leu Met
 115 120 125
 Leu His Gln Arg Ile His Thr Ser Glu Lys Pro Tyr Lys Cys Asp Lys
 130 135 140
 Cys Asp Lys Phe Phe Arg Arg Leu Ser Thr Leu Ile Leu His Leu Arg
 145 150 155 160
 Ile His Asn Gly Glu Lys Leu Tyr Arg Cys Asn Lys Cys Glu Lys Val
 165 170 175
 Cys Asn Arg His Ser Ser Leu Ile Gln His Gln Lys Val His Thr Lys
 180 185 190
 Lys Lys Lys Leu Phe Glu Cys Lys Glu Cys Gly Lys Met Phe Ser Gly
 195 200 205
 Thr Ala Asn Leu Lys Ile His Gln Asn Ile His Ser Glu Glu Lys Pro

210	215	220
Phe Lys Cys Asn Lys Cys Ser Lys Val Phe Gly Arg Gln Ser Phe Leu		
225	230	235
Ile Glu His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Gln Cys Glu		
245	250	255
Glu Cys Gly Lys Ala Phe Ser His Arg Ile Ser Leu Thr Arg His Lys		
260	265	270
Arg Ile His Thr Glu Asp Arg Pro Tyr Glu Cys Asp Gln Cys Gly Lys		
275	280	285
Ala Phe Ser Gln Ser Ala His Leu Ala Gln His Glu Arg Ile His Thr		
290	295	300
Gly Glu Lys Pro Tyr Thr Cys Lys Thr Cys Gly Lys Ala Phe Ser Gln		
305	310	315
Arg Thr Ser Leu Ile Leu His Glu Arg Ser His Thr Gly Glu Lys Pro		
325	330	335
Tyr Glu Cys Asn Glu Cys Gly Lys Ala Phe Ser Ser Gly Ser Asp Leu		
340	345	350
Ile Arg His Gln Arg Ser His Ser Ser Glu Lys Pro Tyr Glu Cys Ser		
355	360	365
Lys Cys Gly Lys Ala Tyr Ser Arg Ser Ser Ser Leu Ile Arg His Gln		
370	375	380
Asn Thr His Ser Glu Glu Lys Ala		
385	390	

<210> 2317

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2317

Met Leu Leu Trp Val Met Ala Trp Arg Leu Pro Pro Gln Ser Leu Asn
 1 5 10 15
 Gly Gln Ile Ser Tyr Ser Ser His Pro Trp Glu Tyr Phe Ile Lys Gln
 20 25 30
 Asn Tyr Lys Ser Pro Cys Phe Phe Arg Ser Thr Val Gln Trp Glu Ser
 35 40 45
 Leu Ser Cys Leu Phe Phe Phe Phe Phe Phe Leu Leu Ser Phe Tyr Thr
 50 55 60
 Gly Ile Phe Phe Ser Phe Tyr Phe Phe Phe Leu Leu Leu Phe Ile Ser
 65 70 75 80
 Ser Leu Lys Lys Met Ile Gly Ser Thr Gln Pro Gln Gly Thr Asp Leu
 85 90 95
 Ser Lys Pro Ser Trp Asp Lys Tyr Phe Phe Glu Lys
 100 105

<210> 2318

<211> 882

<212> PRT

<213> Homo sapiens

<400> 2318

Met Ala Ile Pro Ser Pro Leu Val Ala Val Glu Trp Trp Arg Ile Cys
 1 5 10 15
 Leu Asp Glu Ala Gln Met Val Glu Cys Pro Thr Val Lys Ala Ala Glu
 20 25 30
 Met Ala Gln Arg Leu Ser Gly Ile Asn Arg Trp Cys Ile Ser Gly Thr

35	40	45
Pro Val Gln Arg Gly Leu Glu Asp Leu Phe Gly Leu Val Val Phe Leu		
50	55	60
Gly Ile Glu Pro Tyr Cys Val Lys His Trp Trp Val Arg Leu Leu Tyr		
65	70	75
Arg Pro Tyr Cys Lys Lys Asn Pro Gln His Leu Tyr Ser Phe Ile Ala		
85	90	95
Lys Ile Leu Trp Arg Ser Ala Lys Lys Asp Val Ile Asp Gln Ile Gln		
100	105	110
Ile Pro Pro Gln Thr Glu Glu Ile His Trp Leu His Phe Ser Pro Val		
115	120	125
Glu Arg His Phe Tyr His Arg Gln His Glu Val Cys Cys Gln Asp Val		
130	135	140
Val Val Lys Leu Arg Lys Ile Ser Asp Trp Ala Leu Lys Leu Ser Ser		
145	150	155
Leu Asp Arg Arg Thr Val Thr Ser Ile Leu Tyr Pro Leu Leu Arg Leu		
165	170	175
Arg Gln Ala Cys Cys His Pro Gln Ala Val Arg Gly Glu Phe Leu Pro		
180	185	190
Leu Gln Lys Ser Thr Met Thr Met Glu Glu Leu Leu Thr Ser Leu Gln		
195	200	205
Lys Lys Cys Gly Thr Glu Cys Glu Glu Ala His Arg Gln Leu Val Cys		
210	215	220
Ala Leu Asn Gly Leu Ala Gly Ile His Ile Ile Lys Gly Glu Tyr Ala		
225	230	235
Leu Ala Ala Glu Leu Tyr Arg Glu Val Leu Arg Ser Ser Glu Glu His		
245	250	255
Lys Gly Lys Leu Lys Thr Asp Ser Leu Gln Arg Leu His Ala Thr His		
260	265	270

Asn Leu Met Glu Leu Leu Ile Ala Arg His Pro Gly Ile Pro Pro Thr
275 280 285

Leu Arg Asp Gly Arg Leu Glu Glu Glu Ala Lys Gln Leu Arg Glu His
290 295 300

Tyr Met Ser Lys Cys Asn Thr Glu Val Ala Glu Ala Gln Gln Ala Leu
305 310 315 320

Tyr Pro Val Gln Gln Thr Ile His Glu Leu Gln Arg Lys Ile His Ser
325 330 335

Asn Ser Pro Trp Trp Leu Asn Val Ile His Arg Ala Ile Glu Phe Thr
340 345 350

Ile Asp Glu Glu Leu Val Gln Arg Val Arg Asn Glu Ile Thr Ser Asn
355 360 365

Tyr Lys Gln Gln Thr Gly Lys Leu Ser Met Ser Glu Lys Phe Arg Asp
370 375 380

Cys Arg Gly Leu Gln Phe Leu Leu Thr Thr Gln Met Glu Glu Leu Asn
385 390 395 400

Lys Cys Gln Lys Leu Val Arg Glu Ala Val Lys Asn Leu Glu Gly Pro
405 410 415

Pro Ser Arg Asn Val Ile Glu Ser Ala Thr Val Cys His Leu Arg Pro
420 425 430

Ala Arg Leu Pro Leu Asn Cys Cys Val Phe Cys Lys Ala Asp Glu Leu
435 440 445

Phe Thr Glu Tyr Glu Ser Lys Leu Phe Ser Asn Thr Val Lys Gly Gln
450 455 460

Thr Ala Ile Phe Glu Glu Met Ile Gly Asp Glu Glu Gly Leu Val Asp
465 470 475 480

Asp Arg Ala Pro Thr Thr Thr Arg Gly Leu Trp Ala Ile Ser Glu Thr
485 490 495

Glu Arg Ser Met Lys Ala Ile Leu Ser Phe Ala Lys Ser His Arg Phe

500	505	510	
Asp Val Glu Phe Val Asp Glu Gly Ser Thr Ser Met Asp Leu Phe Glu			
515	520	525	
Ala Trp Lys Lys Glu Tyr Lys Leu Leu His Glu Tyr Trp Met Ala Leu			
530	535	540	
Arg Asn Arg Val Ser Ala Val Asp Glu Leu Ala Met Ala Thr Glu Arg			
545	550	555	560
Leu Arg Val Arg Asp Pro Arg Glu Pro Lys Pro Asn Pro Pro Val Leu			
565	570	575	
His Ile Ile Glu Pro His Glu Val Glu Gln Asn Arg Ile Lys Leu Leu			
580	585	590	
Asn Asp Lys Ala Val Ala Thr Ser Gln Leu Gln Lys Lys Leu Gly Gln			
595	600	605	
Leu Leu Tyr Leu Thr Asn Leu Glu Lys Ser Gln Asp Lys Thr Ser Gly			
610	615	620	
Gly Val Asn Pro Glu Pro Cys Pro Ile Cys Ala Arg Gln Leu Gly Lys			
625	630	635	640
Gln Trp Ala Val Leu Thr Cys Gly His Cys Phe Cys Asn Glu Cys Ile			
645	650	655	
Ser Ile Ile Ile Glu Gln Tyr Ser Val Gly Ser His Arg Ser Ser Ile			
660	665	670	
Lys Cys Ala Ile Cys Arg Gln Thr Thr Ser His Lys Glu Ile Ser Tyr			
675	680	685	
Val Phe Thr Ser Glu Lys Ala Asn Gln Glu Glu Asp Ile Pro Val Lys			
690	695	700	
Gly Ser His Ser Thr Lys Val Glu Ala Val Val Arg Thr Leu Met Lys			
705	710	715	720
Ile Gln Leu Arg Asp Pro Gly Ala Lys Ala Leu Val Phe Ser Thr Trp			
725	730	735	

Gln Asp Val Leu Asp Ile Ile Ser Lys Ala Leu Thr Asp Asn Asn Met
740 745 750
Glu Phe Ala Gln Ile Ser Arg Val Lys Thr Phe Gln Glu Asn Leu Ser
755 760 765
Ala Phe Lys Arg Asp Pro Gln Ile Asn Ile Leu Leu Leu Pro Leu His
770 775 780
Thr Gly Ser Asn Gly Leu Thr Ile Ile Glu Ala Thr His Val Leu Leu
785 790 795 800
Val Glu Pro Ile Leu Asn Pro Ala His Glu Leu Gln Ala Ile Gly Arg
805 810 815
Val His Arg Ile Gly Gln Thr Lys Pro Thr Ile Val His Arg Phe Leu
820 825 830
Ile Lys Ala Thr Ile Glu Glu Arg Met Gln Ala Met Leu Lys Thr Ala
835 840 845
Glu Arg Ser His Thr Asn Ser Ser Ala Lys His Ser Glu Ala Ser Val
850 855 860
Leu Thr Val Ala Asp Leu Ala Asp Leu Phe Thr Lys Glu Thr Glu Glu
865 870 875 880
Leu Glu

<210> 2319

<211> 126

<212> PRT

<213> Homo sapiens

<400> 2319

Met Val His Ile Ser Ser Met Glu Asn Asn Ala His His Leu Ser Asn

1	5	10	15
Glu Leu Trp Ala Cys Arg Leu Ser Gln His Gly Ser Leu Thr Thr Glu			
20	25	30	
His His Pro Pro Gln Gln Ala Asp Ser Tyr Ser Leu Phe Phe Phe Arg			
35	40	45	
Phe Leu Arg His Arg Val Ser Gln Thr Leu Gly His Thr Thr Tyr Lys			
50	55	60	
Ser Asn Ser Val Ser Val His Phe Met Thr Phe Ser Leu Gly Leu Met			
65	70	75	80
Val Glu Lys Gly Ser Pro Ile Ser His Arg Ser Gly Cys Ser Gly Val			
85	90	95	
Ser Arg Thr Ile Ile Thr Gln His Ser Leu Gln Asn Ser Ser Lys Leu			
100	105	110	
Gln Asp Pro Ser Trp Leu Leu Gln Pro Tyr Lys Ser Trp Ser			
115	120	125	

<210> 2320

<211> 518

<212> PRT

<213> Homo sapiens

<400> 2320

Met Gly Phe His Leu Ile Thr Gln Leu Lys Gly Met Ser Val Val Leu			
1	5	10	15
Val Leu Leu Pro Thr Leu Leu Leu Val Met Leu Thr Gly Ala Gln Arg			
20	25	30	
Ala Cys Pro Lys Asn Cys Arg Cys Asp Gly Lys Ile Val Tyr Cys Glu			
35	40	45	

Ser His Ala Phe Ala Gly Ile Pro Glu Asn Ile Ser Gly Gly Ser Gln
50 55 60
Gly Leu Ser Leu Arg Phe Asn Ser Ile Gln Lys Leu Lys Ser Asn Gln
65 70 75 80
Phe Ala Gly Leu Asn Gln Leu Ile Trp Leu Tyr Leu Asp His Asn Tyr
85 90 95
Ile Ser Ser Val Asp Glu Asp Ala Phe Gln Gly Ile Arg Arg Leu Lys
100 105 110
Glu Leu Ile Leu Ser Ser Asn Lys Ile Thr Tyr Leu His Asn Lys Thr
115 120 125
Phe His Pro Val Pro Asn Leu Arg Asn Leu Asp Leu Ser Tyr Asn Lys
130 135 140
Leu Gln Thr Leu Gln Ser Glu Gln Phe Lys Gly Leu Arg Lys Leu Ile
145 150 155 160
Ile Leu His Leu Arg Ser Asn Ser Leu Lys Thr Val Pro Ile Arg Val
165 170 175
Phe Gln Asp Cys Arg Asn Leu Asp Phe Leu Asp Leu Gly Tyr Asn Arg
180 185 190
Leu Arg Ser Leu Ser Arg Asn Ala Phe Ala Gly Leu Leu Lys Leu Lys
195 200 205
Glu Leu His Leu Glu His Asn Gln Phe Ser Lys Ile Asn Phe Ala His
210 215 220
Phe Pro Arg Leu Phe Asn Leu Arg Ser Ile Tyr Leu Gln Trp Asn Arg
225 230 235 240
Ile Arg Ser Ile Ser Gln Gly Leu Thr Trp Thr Trp Ser Ser Leu His
245 250 255
Asn Leu Asp Leu Ser Gly Asn Asp Ile Gln Gly Ile Glu Pro Gly Thr
260 265 270
Phe Lys Cys Leu Pro Asn Leu Gln Lys Leu Asn Leu Asp Ser Asn Lys

275	280	285
Leu Thr Asn Ile Ser Gln Glu Thr Val Asn Ala Trp Ile Ser Leu Ile		
290	295	300
Ser Ile Thr Leu Ser Gly Asn Met Trp Glu Cys Ser Arg Ser Ile Cys		
305	310	315
Pro Leu Phe Tyr Trp Leu Lys Asn Phe Lys Gly Asn Lys Glu Ser Thr		
325	330	335
Met Ile Cys Ala Gly Pro Lys His Ile Gln Gly Glu Lys Val Ser Asp		
340	345	350
Ala Val Glu Thr Tyr Asn Ile Cys Ser Glu Val Gln Val Val Asn Thr		
355	360	365
Glu Arg Ser His Leu Val Pro Gln Thr Pro Gln Lys Pro Leu Ile Ile		
370	375	380
Pro Arg Pro Thr Ile Phe Lys Pro Asp Val Thr Gln Ser Thr Phe Glu		
385	390	395
Thr Pro Ser Pro Ser Pro Gly Phe Gln Ile Pro Gly Ala Glu Gln Glu		
405	410	415
Tyr Glu His Val Ser Phe His Lys Ile Ile Ala Gly Ser Val Ala Leu		
420	425	430
Phe Leu Ser Val Ala Met Ile Leu Leu Val Ile Tyr Val Ser Trp Lys		
435	440	445
Arg Tyr Pro Ala Ser Met Lys Gln Leu Gln Gln His Ser Leu Met Lys		
450	455	460
Arg Arg Arg Lys Lys Ala Arg Glu Ser Glu Arg Gln Met Asn Ser Pro		
465	470	475
Leu Gln Glu Tyr Tyr Val Asp Tyr Lys Pro Thr Asn Ser Glu Thr Met		
485	490	495
Asp Ile Ser Val Asn Gly Ser Gly Pro Cys Thr Tyr Thr Ile Ser Gly		
500	505	510

Ser Arg Glu Cys Glu Val

515

<210> 2321

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2321

Met Gly Leu Val Ala Ile Gln Arg Pro Ser Ala Gln Pro Leu Leu Ser

1

5

10

15

Leu Arg Pro Pro Gln Ser Arg Gly Phe Cys Pro Leu Thr Met Thr Leu

20

25

30

Gly Cys Ser His Ala Leu Gln Ser Ser Ser Cys Pro Ala Ser Ala Trp

35

40

45

Thr Ala Gln Cys Pro Ser Ser Leu Gln Arg Gln Gly Val Ser Trp Ala

50

55

60

Leu His Arg Arg Ala Cys Ser Pro Glu Ala Ala Ala Arg Ala Cys Leu

65

70

75

80

Ala Phe Pro Gly Ser Pro Gly Asn Gly Ala Thr Val Ala Ala Ser Arg

85

90

95

Ala Leu Ala Ala Gln Ala Ala Thr Ala Glu Leu Ser Gly Leu Ser Gln

100

105

110

Arg Arg Ala Pro Asn Ser Gly Ser Arg Arg Pro Gly Pro Gly Arg Val

115

120

125

Glu Thr Lys His Ser Cys His Leu Pro Arg Gly Gly Cys Pro Trp

130

135

140

<210> 2322

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2322

Met Thr Ile Ala Ala Tyr Gln Thr Leu Tyr Glu Ser Ser Val Ala Phe

1 5 10 15

Gly Met Arg Lys Ala Leu Gln Ala Glu Gln Gly Lys Ser Asp Met Glu

20 25 30

Arg Lys Val Ser Gly Val Tyr Arg Asp Pro Trp Ser His Leu Phe Cys

35 40 45

Lys Pro Gln Gly His Met Leu Ile Ile Pro Ala Leu His Ser Asp Leu

50 55 60

Leu Arg Cys Ser Ala Asp Ser His Asp Thr Trp Thr Cys Ile Thr Ser

65 70 75 80

Val Arg Asp Pro Trp Leu Ser Met Met Ala Ser Leu Val Val Leu Ala

85 90 95

Glu Leu Phe Pro Leu

100

<210> 2323

<211> 338

<212> PRT

<213> Homo sapiens

<400> 2323

Met Glu Tyr Gln Ala Leu Gln Arg Ala Tyr Ala Leu Leu Gln Glu Gln
 1 5 10 15
 Val Gly Gly Thr Leu Asp Ala Glu Arg Glu Val Lys Thr Arg Glu Gln
 20 25 30
 Leu Gln Ala Glu Val Gln Arg Ala Gln Ala Arg Ile Glu Asp Leu Glu
 35 40 45
 Lys Ala Leu Ala Glu Gln Gly Gln Asp Met Lys Trp Ile Glu Glu Lys
 50 55 60
 Gln Ala Leu Tyr Arg Arg Asn Gln Glu Leu Val Glu Lys Ile Lys Gln
 65 70 75 80
 Met Glu Thr Glu Glu Ala Arg Leu Arg His Glu Val Gln Asp Ala Arg
 85 90 95
 Asp Gln Asn Glu Leu Leu Glu Phe Arg Ile Leu Glu Leu Glu Glu Arg
 100 105 110
 Glu Arg Lys Ser Pro Ala Ile Ser Phe His His Thr Pro Phe Val Asp
 115 120 125
 Gly Lys Ser Pro Leu Gln Val Tyr Cys Glu Ala Glu Gly Val Thr Asp
 130 135 140
 Ile Val Val Ala Glu Leu Met Lys Lys Leu Asp Ile Leu Gly Asp Asn
 145 150 155 160
 Ala Asn Leu Thr Asn Glu Glu Gln Val Val Val Ile Gln Ala Arg Thr
 165 170 175
 Val Leu Thr Leu Ala Glu Lys Trp Leu Gln Gln Ile Glu Glu Thr Glu
 180 185 190
 Ala Ala Leu Gln Arg Lys Met Val Asp Leu Glu Ser Glu Lys Glu Leu
 195 200 205
 Phe Ser Lys Gln Lys Gly Tyr Leu Asp Glu Glu Leu Asp Tyr Arg Lys
 210 215 220
 Gln Ala Leu Asp Gln Ala Asn Lys His Ile Leu Glu Leu Glu Ala Met

225 230 235 240
 Leu Tyr Asp Ala Leu Gln Gln Glu Ala Gly Ala Lys Val Ala Glu Leu
 245 250 255
 Leu Ser Glu Glu Glu Arg Glu Lys Leu Lys Val Ala Val Glu Gln Trp
 260 265 270
 Lys Arg Gln Val Met Ser Glu Leu Arg Glu Arg Asp Ala Gln Ile Leu
 275 280 285
 Arg Glu Arg Met Glu Leu Leu Gln Leu Ala Gln Gln Arg Ile Lys Glu
 290 295 300
 Leu Glu Glu Arg Ile Glu Ala Gln Lys Arg Gln Ile Lys Glu Leu Glu
 305 310 315 320
 Glu Lys Phe Leu Phe Leu Phe Leu Phe Phe Ser Leu Ala Phe Ile Leu
 325 330 335
 Trp Ser

<210> 2324

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2324

Met Leu Pro Gln Asp Ser Pro Leu Phe Cys Trp Ala Asn Pro Ile His
 1 5 10 15
 Pro Gly Ser Ser Leu Asp Ala Val Gln Ile Cys Leu Leu Gln Ala Phe
 20 25 30
 Thr Cys Trp Cys Leu Phe His Pro Met Gly Asn Ala Glu His Gly Gln
 35 40 45

Ser His Arg Leu Ser Ser Leu Ala Phe Trp Thr Gln His Thr Pro Leu

50

55

60

Ala Asn Trp Val Leu Leu Asp Leu Thr Gly Pro Tyr Trp Thr Gln His

65

70

75

80

Thr Pro Leu Ala Asn Trp Val Leu Asn Ile Leu Lys Ala Leu His Leu

85

90

95

Pro Pro Gln Val Met Tyr Cys Gln Gln Gly His Thr Val Phe Phe Gly

100

105

110

Asn Pro Ala Val Cys Pro Asp Arg Gly Pro Thr Ala Leu Gly Gln Leu

115

120

125

Pro Cys Leu Glu Gly Lys Gly Arg Val Cys Val His Val Cys Val Trp

130

135

140

Gly Trp Gly Asp

145

<210> 2325

<211> 333

<212> PRT

<213> Homo sapiens

<400> 2325

Met Ala Gln Glu Asp Met Ala Ala His Val Gly Ala Ser Arg Thr Pro

1

5

10

15

Gln Glu Val Met Glu His Tyr Val Ser Met Tyr Ile His Gly Asn Leu

20

25

30

Gly Lys Ala Cys Ile Pro Asp Thr Ile Pro Asn Arg Val Thr Asp His

35

40

45

Thr Cys Pro Ser Gly Gly Pro Leu Ser Pro Ser Leu Thr Thr Pro Leu

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Ile Ile Lys Asp His Leu Gln Lys Arg Gln Gly Ile Pro Ser Lys Ser
 290 295 300
 Arg Leu Pro Ser Tyr Leu Asp Lys Val Leu Lys Lys Arg Ile Leu Asn
 305 310 315 320
 Ser Leu Thr Glu Ser Gly Trp Ile Ser Arg Asp Ala Ser
 325 330

<210> 2326

<211> 206

<212> PRT

<213> Homo sapiens

<400> 2326

Met Leu Met Val Leu Ser Pro Met Ala Pro Ile Leu Glu Ala Pro Trp
 1 5 10 15
 Cys Gly Leu Trp Ala Trp Gly Ser Leu Ala Leu Ser Ser Met Arg Thr
 20 25 30
 Trp Gln Gln Pro Thr Phe Pro Pro Val Thr Thr Arg Leu Cys Pro Gly
 35 40 45
 Arg Gly Arg Leu Ser Thr Ala Cys Pro Gly Ala Pro Ser Gly Gly Gln
 50 55 60
 Ala Gln Tyr Glu Pro Ile Arg Gly Thr Leu Pro Ala Trp Glu Asp Ser
 65 70 75 80
 Val Ala Ser Gly Gly Ser Ser Arg Glu Ala Leu Asp Gln Ala Ala Glu
 85 90 95
 Asp Ala Asn Leu Pro Gln Ala Gly Leu Ala Ala His Gly His Gly Gly
 100 105 110
 Ser Trp Pro Arg Val Ser Pro Pro Gly Thr Gln Ala Cys Ser Arg Pro

115 120 125
Ser Gly Met Gln Ala Leu Gly Leu Trp Gly Ala Ala Trp Arg Leu Ala
130 135 140
Ser Cys Tyr Lys Lys Leu Trp Arg Arg Leu Leu Ser Val Ala Ala Gly
145 150 155 160
Trp Leu Trp Leu Trp Lys Gly Ser Pro Gln Gly Pro Trp Ser Ala Thr
165 170 175
Cys Gly Pro His Cys Arg Ala Val Val Ser Pro His Trp Leu Pro Cys
180 185 190
His Asp Ala Ala Glu Val Ser Ala Ala Pro Ala Arg Leu Pro
195 200 205

<210> 2327

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2327

Met Leu Thr Ala Thr Val Asp Leu Val Ser Cys Trp Ala Arg Phe Met
1 5 10 15
Arg Ser Cys Ser Thr Leu Lys Lys Arg Ser Asp Phe Leu Ser Leu Ile
20 25 30
Ile Arg Leu Trp Lys Asp Phe Trp Arg Trp Thr Val Ala Arg Glu Gln
35 40 45
Pro Gln His Trp Ala Leu Leu Leu Leu Arg Ala Trp Gly Arg His Thr
50 55 60
Thr Leu Leu Gly Pro Leu Gly Leu Gln Gly Pro Gly Cys Arg Pro Gly
65 70 75 80

Cys Trp Trp Leu Ala Ser Met Ala Thr His Gly Arg Leu His Ala Pro
 85 90 95
 Tyr Leu Leu Leu Cys His Val Val Leu Ser Ser Pro Pro His Thr Pro
 100 105 110
 Leu Pro Gln Pro Gly Leu Ser Pro Ser Pro His His Pro Ala Pro Ile
 115 120 125
 Met Pro Thr Leu Leu Thr Ser Gln Pro Leu Leu Arg Pro Leu Leu Phe
 130 135 140
 His Thr Leu Leu Gly Leu Gln Cys Pro Thr Gln Gly Pro Pro Pro Pro
 145 150 155 160
 Lys Arg Glu Gly Gly Lys Gly Gly His Val Gln Ala Pro Gly Pro Pro
 165 170 175
 His Leu Asp Leu Cys Val Ala Thr Ile Gln Gln Val Asp Gly Gln Ala
 180 185 190
 Asp Ala Leu Leu Glu Asp Leu Leu Val Leu Gly Ala Gly Asp Glu Val
 195 200 205
 Ala Tyr Gln Leu Gly Gly Pro Leu Leu Val Gln Pro Ala Leu Gly Gly
 210 215 220
 Cys Asp Cys Arg Pro Val Trp Val Gln Ala Trp Arg Arg Asp Ser Val
 225 230 235 240
 Glu Gly Glu Leu Val
 245

<210> 2328

<211> 945

<212> PRT

<213> Homo sapiens

<400> 2328

Met Ala Glu Gly Gln Gly Gly Gly Gly Gln Arg Trp Asp Trp Ala Gly
 1 5 10 15
 Gly Gly Arg Ala Ala Glu Glu Glu Val Val Arg Arg Arg Cys Arg Arg
 20 25 30
 Gly Glu Glu Ala Gln Val Ala Gln Pro Trp Pro Glu Gly Ser Arg Gly
 35 40 45
 Thr Ala Ala Gly Pro Pro Val Glu Glu Arg Phe Arg Gln Leu His Leu
 50 55 60
 Arg Lys Gln Val Ser Tyr Arg Lys Ala Ile Thr Lys Ser Gly Leu Gln
 65 70 75 80
 His Leu Ala Pro Pro Pro Pro Thr Pro Gly Ala Pro Cys Ser Glu Ser
 85 90 95
 Glu Arg Gln Ile Arg Ser Thr Val Asp Trp Ser Glu Ser Ala Thr Tyr
 100 105 110
 Gly Glu His Ile Trp Phe Glu Thr Asn Val Ser Gly Asp Phe Cys Tyr
 115 120 125
 Val Gly Glu Gln Tyr Cys Val Ala Arg Met Leu Lys Ser Val Ser Arg
 130 135 140
 Arg Lys Cys Ala Ala Cys Lys Ile Val Val His Thr Pro Cys Ile Glu
 145 150 155 160
 Gln Leu Glu Lys Ile Asn Phe Arg Cys Lys Pro Ser Phe Arg Glu Ser
 165 170 175
 Gly Ser Arg Asn Val Arg Glu Pro Thr Phe Val Arg His His Trp Val
 180 185 190
 His Arg Arg Arg Gln Asp Gly Lys Cys Arg His Cys Gly Lys Gly Phe
 195 200 205
 Gln Gln Lys Phe Thr Phe His Ser Lys Glu Ile Val Ala Ile Ser Cys
 210 215 220

Ser Trp Cys Lys Gln Ala Tyr His Ser Lys Val Ser Cys Phe Met Leu
225 230 235 240
Gln Gln Ile Glu Glu Pro Cys Ser Leu Gly Val His Ala Ala Val Val
245 250 255
Ile Pro Pro Thr Trp Ile Leu Arg Ala Arg Arg Pro Gln Asn Thr Leu
260 265 270
Lys Ala Ser Lys Lys Lys Lys Arg Ala Ser Phe Lys Arg Lys Ser Ser
275 280 285
Lys Lys Gly Pro Glu Glu Gly Arg Trp Arg Pro Phe Ile Ile Arg Pro
290 295 300
Thr Pro Ser Pro Leu Met Lys Pro Leu Leu Val Phe Val Asn Pro Lys
305 310 315 320
Ser Gly Gly Asn Gln Gly Ala Lys Ile Ile Gln Ser Phe Leu Trp Tyr
325 330 335
Leu Asn Pro Arg Gln Val Phe Asp Leu Ser Gln Gly Gly Pro Lys Glu
340 345 350
Ala Leu Glu Met Tyr Arg Lys Val His Asn Leu Arg Ile Leu Ala Cys
355 360 365
Gly Gly Asp Gly Thr Val Gly Trp Ile Leu Ser Thr Leu Asp Gln Leu
370 375 380
Arg Leu Lys Pro Pro Pro Pro Val Ala Ile Leu Pro Leu Gly Thr Gly
385 390 395 400
Asn Asp Leu Ala Arg Thr Leu Asn Trp Gly Gly Gly Tyr Thr Asp Glu
405 410 415
Pro Val Ser Lys Ile Leu Ser His Val Glu Glu Gly Asn Val Val Gln
420 425 430
Leu Asp Arg Trp Asp Leu His Ala Glu Pro Asn Pro Glu Ala Gly Pro
435 440 445
Glu Asp Arg Asp Glu Gly Ala Thr Asp Arg Leu Pro Leu Asp Val Phe

450 455 460
Asn Asn Tyr Phe Ser Leu Gly Phe Asp Ala His Val Thr Leu Glu Phe
465 470 475 480
His Glu Ser Arg Glu Ala Asn Pro Glu Lys Phe Asn Ser Arg Phe Arg
485 490 495
Asn Lys Met Phe Tyr Val Gly Thr Ala Phe Ser Asp Phe Leu Met Gly
500 505 510
Ser Ser Lys Asp Leu Ala Lys His Ile Arg Val Val Cys Asp Gly Met
515 520 525
Asp Leu Thr Pro Lys Ile Gln Asp Leu Lys Pro Gln Cys Val Val Phe
530 535 540
Leu Asn Ile Pro Arg Tyr Cys Ala Gly Thr Met Pro Trp Gly His Pro
545 550 555 560
Gly Glu His His Asp Phe Glu Pro Gln Arg His Asp Asp Gly Tyr Leu
565 570 575
Glu Val Ile Gly Phe Thr Met Thr Ser Leu Ala Ala Leu Gln Val Gly
580 585 590
Gly His Gly Glu Arg Leu Thr Gln Cys Arg Glu Val Val Leu Thr Thr
595 600 605
Ser Lys Ala Ile Pro Val Gln Val Asp Gly Glu Pro Cys Lys Leu Ala
610 615 620
Ala Ser Arg Ile Arg Ile Ala Leu Arg Asn Gln Ala Thr Met Val Gln
625 630 635 640
Lys Ala Lys Arg Arg Ser Ala Ala Pro Leu His Ser Asp Gln Gln Pro
645 650 655
Val Pro Glu Gln Leu Arg Ile Gln Val Ser Arg Val Ser Met His Asp
660 665 670
Tyr Glu Ala Leu His Tyr Asp Lys Glu Gln His Lys Glu Ala Ser Val
675 680 685

Pro Leu Gly Thr Val Val Val Pro Gly Asp Ser Asp Leu Glu Leu Cys
690 695 700

Arg Ala His Ile Glu Arg Leu Gln Gln Glu Pro Asp Gly Ala Gly Ala
705 710 715 720

Lys Ser Pro Thr Cys Gln Lys Leu Ser Pro Lys Trp Cys Phe Leu Asp
725 730 735

Ala Thr Thr Ala Ser Arg Phe Tyr Arg Ile Asp Arg Ala Gln Glu His
740 745 750

Leu Asn Tyr Val Thr Glu Ile Ala Gln Asp Glu Ile Tyr Ile Leu Asp
755 760 765

Pro Glu Leu Leu Gly Ala Ser Ala Arg Pro Asp Leu Pro Thr Pro Thr
770 775 780

Ser Pro Leu Pro Thr Ser Pro Cys Ser Pro Thr Pro Arg Ser Leu Gln
785 790 795 800

Gly Asp Ala Ala Pro Pro Gln Gly Glu Glu Leu Ile Glu Ala Ala Lys
805 810 815

Arg Asn Asp Phe Cys Lys Leu Gln Glu Leu His Arg Ala Gly Gly Asp
820 825 830

Leu Met His Arg Asp Glu Gln Ser Arg Thr Leu Leu His His Ala Val
835 840 845

Ser Thr Gly Ser Lys Asp Val Val Arg Tyr Leu Leu Asp His Ala Pro
850 855 860

Pro Glu Ile Leu Asp Ala Val Glu Glu Asn Gly Glu Thr Cys Leu His
865 870 875 880

Gln Ala Ala Ala Leu Gly Gln Arg Thr Ile Cys His Tyr Ile Val Glu
885 890 895

Ala Gly Ala Ser Leu Met Lys Thr Asp Gln Gln Gly Asp Thr Pro Arg
900 905 910

Gln Arg Ala Glu Lys Ala Gln Asp Thr Glu Leu Ala Ala Tyr Leu Glu

915 920 925
Asn Arg Gln His Tyr Gln Met Ile Gln Arg Glu Asp Gln Glu Thr Ala
930 935 940
Val
945

<210> 2329

<211> 1232

<212> PRT

<213> Homo sapiens

<400> 2329

Met Met Cys Glu Val Met Pro Thr Ile Asn Glu Asp Thr Pro Met Ser
1 5 10 15
Gln Arg Gly Ser Gln Ser Ser Gly Ser Asp Ser Asp Ser His Phe Glu
20 25 30
Gln Leu Met Val Asn Met Leu Asp Glu Arg Asp Arg Leu Leu Asp Thr
35 40 45
Leu Arg Glu Thr Gln Glu Ser Leu Ser Leu Ala Gln Gln Arg Leu Gln
50 55 60
Asp Val Ile Tyr Asp Arg Asp Ser Leu Gln Arg Gln Leu Asn Ser Ala
65 70 75 80
Leu Pro Gln Glu Phe Ala Ala Leu Thr Lys Glu Leu Asn Ala Cys Arg
85 90 95
Glu Gln Leu Leu Glu Lys Glu Glu Glu Ile Ser Glu Leu Lys Ala Glu
100 105 110
Arg Asn Asn Thr Arg Leu Leu Leu Glu His Leu Glu Cys Leu Val Ser
115 120 125

Arg His Glu Arg Ser Leu Arg Met Thr Val Val Lys Arg Gln Ala Gln
 130 135 140
 Ser Pro Ser Gly Val Ser Ser Glu Val Glu Val Leu Lys Ala Leu Lys
 145 150 155 160
 Ser Leu Phe Glu His His Lys Ala Leu Asp Glu Lys Val Arg Glu Arg
 165 170 175
 Leu Arg Val Ser Leu Glu Arg Val Ser Ala Leu Glu Glu Glu Leu Ala
 180 185 190
 Ala Ala Asn Gln Glu Ile Val Ala Leu Arg Glu Gln Asn Val His Ile
 195 200 205
 Gln Arg Lys Met Ala Ser Ser Glu Gly Ser Thr Glu Ser Glu His Leu
 210 215 220
 Glu Gly Met Glu Pro Gly Gln Lys Val His Glu Lys Arg Leu Ser Asn
 225 230 235 240
 Gly Ser Ile Asp Ser Thr Asp Glu Thr Ser Gln Ile Val Glu Leu Gln
 245 250 255
 Glu Leu Leu Glu Lys Gln Asn Tyr Glu Met Ala Gln Met Lys Glu Arg
 260 265 270
 Leu Ala Ala Leu Ser Ser Arg Val Gly Glu Val Glu Gln Glu Ala Glu
 275 280 285
 Thr Ala Arg Lys Asp Leu Ile Lys Thr Glu Glu Met Asn Thr Lys Tyr
 290 295 300
 Gln Arg Asp Ile Arg Glu Ala Met Ala Gln Lys Glu Asp Met Glu Glu
 305 310 315 320
 Arg Ile Thr Thr Leu Glu Lys Arg Tyr Leu Ser Ala Gln Arg Glu Ser
 325 330 335
 Thr Ser Ile His Asp Met Asn Asp Lys Leu Glu Asn Glu Leu Ala Asn
 340 345 350
 Lys Glu Ala Ile Leu Arg Gln Met Glu Glu Lys Asn Arg Gln Leu Gln

355 360 365
Glu Arg Leu Glu Leu Ala Glu Gln Lys Leu Gln Gln Thr Met Arg Lys
370 375 380
Ala Glu Thr Leu Pro Glu Val Glu Ala Glu Leu Ala Gln Arg Ile Ala
385 390 395 400
Ala Leu Thr Lys Ala Glu Glu Arg His Gly Asn Ile Glu Glu Arg Met
405 410 415
Arg His Leu Glu Gly Gln Leu Glu Glu Lys Asn Gln Glu Leu Gln Arg
420 425 430
Ala Arg Gln Arg Glu Lys Met Asn Glu Glu His Asn Lys Arg Leu Ser
435 440 445
Asp Thr Val Asp Arg Leu Leu Thr Glu Ser Asn Glu Arg Leu Gln Leu
450 455 460
His Leu Lys Glu Arg Met Ala Ala Leu Glu Glu Lys Asn Val Leu Ile
465 470 475 480
Gln Glu Ser Glu Thr Phe Arg Lys Asn Leu Glu Glu Ser Leu His Asp
485 490 495
Lys Glu Arg Leu Ala Glu Glu Ile Glu Lys Leu Arg Ser Glu Leu Asp
500 505 510
Gln Leu Lys Met Arg Thr Gly Ser Leu Ile Glu Pro Thr Ile Pro Arg
515 520 525
Thr His Leu Asp Thr Ser Ala Glu Leu Arg Tyr Ser Val Gly Ser Leu
530 535 540
Val Asp Ser Gln Ser Asp Tyr Arg Thr Thr Lys Val Ile Arg Arg Pro
545 550 555 560
Arg Arg Gly Arg Met Gly Val Arg Arg Asp Glu Pro Lys Val Lys Ser
565 570 575
Leu Gly Asp His Glu Trp Asn Arg Thr Gln Gln Ile Gly Val Leu Ser
580 585 590

Ser His Pro Phe Glu Ser Asp Thr Glu Met Ser Asp Ile Asp Asp Asp
595 600 605

Asp Arg Glu Thr Ile Phe Ser Ser Met Asp Leu Leu Ser Pro Ser Gly
610 615 620

His Ser Asp Ala Gln Thr Leu Ala Met Met Leu Gln Glu Gln Leu Asp
625 630 635 640

Ala Ile Asn Lys Glu Ile Arg Leu Ile Gln Glu Glu Lys Glu Ser Thr
645 650 655

Glu Leu Arg Ala Glu Glu Ile Glu Asn Arg Val Ala Ser Val Ser Leu
660 665 670

Glu Gly Leu Asn Leu Ala Arg Val His Pro Gly Thr Ser Ile Thr Ala
675 680 685

Ser Val Thr Ala Ser Ser Leu Ala Ser Ser Ser Pro Pro Ser Gly His
690 695 700

Ser Thr Pro Lys Leu Thr Pro Arg Ser Pro Ala Arg Glu Met Asp Arg
705 710 715 720

Met Gly Val Met Thr Leu Pro Ser Asp Leu Arg Lys His Arg Arg Lys
725 730 735

Ile Ala Val Val Glu Glu Asp Gly Arg Glu Asp Lys Ala Thr Ile Lys
740 745 750

Cys Glu Thr Ser Pro Pro Pro Thr Pro Arg Ala Leu Arg Met Thr His
755 760 765

Thr Leu Pro Ser Ser Tyr His Asn Asp Ala Arg Ser Ser Leu Ser Val
770 775 780

Ser Leu Glu Pro Glu Ser Leu Gly Leu Gly Ser Ala Asn Ser Ser Gln
785 790 795 800

Asp Ser Leu His Lys Ala Pro Lys Lys Lys Gly Ile Lys Ser Ser Ile
805 810 815

Gly Arg Leu Phe Gly Lys Lys Glu Lys Ala Arg Leu Gly Gln Leu Arg

820	825	830
Gly Phe Met Glu Thr Glu Ala Ala Ala Gln Glu Ser Leu Gly Leu Gly		
835	840	845
Lys Leu Gly Thr Gln Ala Glu Lys Asp Arg Arg Leu Lys Lys Asn Thr		
850	855	860
Ser Gly His Glu Leu Leu Glu Glu Ala Arg Arg Lys Gly Leu Pro Phe		
865	870	875
Ala Gln Trp Asp Gly Pro Thr Val Val Ala Trp Leu Glu Leu Trp Leu		
885	890	895
Gly Met Pro Ala Trp Tyr Val Ala Ala Cys Arg Ala Asn Val Lys Ser		
900	905	910
Gly Ala Ile Met Ser Ala Leu Ser Asp Thr Glu Ile Gln Arg Glu Ile		
915	920	925
Gly Ile Ser Asn Pro Leu His Arg Leu Lys Leu Arg Leu Ala Ile Gln		
930	935	940
Glu Met Val Ser Leu Thr Ser Pro Ser Ala Pro Pro Thr Ser Arg Thr		
945	950	955
Pro Ser Gly Asn Val Trp Val Thr His Glu Glu Met Glu Asn Leu Ala		
965	970	975
Ala Pro Ala Lys Thr Lys Glu Ser Glu Glu Gly Ser Trp Ala Gln Cys		
980	985	990
Pro Val Phe Leu Gln Thr Leu Ala Tyr Gly Asp Met Asn His Glu Trp		
995	1000	1005
Ile Gly Asn Glu Trp Leu Pro Ser Leu Gly Leu Pro Gln Tyr Arg Ser		
1010	1015	1020
Tyr Phe Met Glu Cys Leu Val Asp Ala Arg Met Leu Asp His Leu Thr		
1025	1030	1035
Lys Lys Asp Leu Arg Val His Leu Lys Met Val Asp Ser Phe His Arg		
1045	1050	1055

Thr Ser Leu Gln Tyr Gly Ile Met Cys Leu Lys Arg Leu Asn Tyr Asp
1060 1065 1070
Arg Lys Glu Leu Glu Arg Arg Arg Glu Ala Ser Gln His Glu Ile Lys
1075 1080 1085
Asp Val Leu Val Trp Ser Asn Asp Arg Val Ile Arg Trp Ile Gln Ala
1090 1095 1100
Ile Gly Leu Arg Glu Tyr Ala Asn Asn Ile Leu Glu Ser Gly Val His
1105 1110 1115 1120
Gly Ser Leu Ile Ala Leu Asp Glu Asn Phe Asp Tyr Ser Ser Leu Ala
1125 1130 1135
Leu Leu Leu Gln Ile Pro Thr Gln Asn Thr Gln Ala Arg Gln Ile Leu
1140 1145 1150
Glu Arg Glu Tyr Asn Asn Leu Leu Ala Leu Gly Thr Glu Arg Arg Leu
1155 1160 1165
Asp Glu Ser Asp Asp Lys Asn Phe Arg Arg Gly Ser Thr Trp Arg Arg
1170 1175 1180
Gln Phe Pro Pro Arg Glu Val His Gly Ile Ser Met Met Pro Gly Ser
1185 1190 1195 1200
Ser Glu Thr Leu Pro Ala Gly Phe Arg Leu Thr Thr Thr Ser Gly Gln
1205 1210 1215
Ser Arg Lys Met Thr Thr Asp Asp Gly Val Phe Ser Val Tyr Ser Thr
1220 1225 1230

<210> 2330

<211> 521

<212> PRT

<213> Homo sapiens

<400> 2330

Met	Ile	Pro	Tyr	Lys	Thr	Asp	Ser	Gly	Ser	Asp	His	His	Asp	Cys	Met
1				5				10					15		
Pro	Leu	Ala	Cys	Leu	Ile	Leu	Leu	Ser	Leu	Leu	Leu	Phe	Tyr	Ser	Thr
			20					25					30		
Ser	Arg	Pro	Arg	Ala	Met	Ala	Ile	Leu	Gly	Thr	Glu	Gly	Arg	Gly	Ser
		35					40					45			
Phe	Ser	Cys	Pro	Lys	Thr	Lys	Thr	Asp	Gly	Ser	Pro	Lys	Ser	Thr	Ser
	50					55					60				
Ser	Pro	Val	Thr	Thr	Tyr	His	Leu	Gln	Arg	Ala	Leu	Pro	Gly	Gly	Ile
65					70				75					80	
Ile	Leu	Met	Glu	Leu	Ala	Phe	Gln	Gly	Cys	Tyr	Phe	Cys	Val	Lys	Gln
				85				90					95		
Phe	Ala	Leu	Glu	Cys	Ser	Arg	Ile	Pro	Met	Gly	Gln	Ala	Val	Asn	Ser
		100						105					110		
Gln	Leu	Ser	Met	Leu	Phe	Thr	Glu	Glu	Cys	Asp	Lys	Val	Arg	Asp	Leu
	115						120					125			
Met	His	Val	His	Ser	Phe	Ser	Tyr	Asp	Phe	His	Leu	Arg	Leu	Val	His
	130					135				140					
Gln	His	Val	Leu	Gly	Ala	His	Leu	Val	Leu	Arg	His	Gly	Tyr	His	Leu
145					150					155				160	
Thr	Thr	Phe	Leu	Arg	His	Phe	Leu	Ala	His	His	Pro	Asp	Gly	Pro	His
			165					170					175		
Phe	Gly	Arg	Asn	His	Ile	Tyr	Gln	Gly	Thr	Leu	Glu	Leu	Pro	Thr	Pro
		180						185					190		
Leu	Ile	Ala	Ala	His	Gln	Leu	Tyr	Asn	Tyr	Val	Ala	Asp	His	Ala	Ser
		195					200					205			
Ser	Tyr	His	Met	Lys	Pro	Leu	Arg	Met	Ala	Arg	Pro	Gly	Gly	Pro	Glu
	210						215					220			

His Asn Glu Tyr Ala Leu Val Ser Ala Trp His Ser Ser Gly Ser Tyr
 225 230 235 240
 Leu Asp Ser Glu Gly Leu Arg His Gln Asp Asp Phe Asp Val Ser Leu
 245 250 255
 Leu Val Cys His Cys Ala Ala Pro Phe Glu Glu Gln Gly Glu Ala Glu
 260 265 270
 Arg His Val Leu Arg Leu Gln Phe Phe Val Val Leu Thr Ser Gln Arg
 275 280 285
 Glu Leu Phe Pro Arg Leu Thr Ala Asp Met Arg Arg Phe Arg Lys Pro
 290 295 300
 Pro Arg Leu Pro Pro Glu Pro Glu Ala Pro Gly Ser Ser Ala Gly Ser
 305 310 315 320
 Pro Gly Glu Ala Ser Gly Leu Ile Leu Ala Pro Gly Pro Ala Pro Leu
 325 330 335
 Phe Pro Pro Leu Ala Ala Glu Val Gly Met Ala Arg Ala Arg Leu Ala
 340 345 350
 Gln Leu Val Arg Leu Ala Gly Gly His Cys Arg Arg Asp Thr Leu Trp
 355 360 365
 Lys Arg Leu Phe Leu Leu Glu Pro Pro Gly Pro Asp Arg Leu Arg Leu
 370 375 380
 Gly Gly Arg Leu Ala Leu Ala Glu Leu Glu Glu Leu Leu Glu Ala Val
 385 390 395 400
 His Ala Lys Ser Ile Gly Asp Ile Asp Pro Gln Leu Asp Cys Phe Leu
 405 410 415
 Ser Met Thr Val Ser Trp Tyr Gln Ser Leu Ile Lys Val Leu Leu Ser
 420 425 430
 Arg Phe Pro Gln Ser Cys Arg His Phe Gln Ser Pro Asp Leu Gly Thr
 435 440 445
 Gln Tyr Leu Val Val Leu Asn Gln Lys Phe Thr Asp Cys Phe Val Leu

450 455 460
 Val Phe Leu Asp Ser His Leu Gly Lys Thr Ser Leu Thr Val Val Phe
 465 470 475 480
 Arg Glu Pro Phe Pro Val Gln Pro Gln Asp Ser Glu Ser Pro Pro Ala
 485 490 495
 Gln Leu Val Ser Thr Tyr His His Leu Glu Ser Val Ile Asn Thr Ala
 500 505 510
 Cys Phe Thr Leu Trp Thr Arg Leu Leu
 515 520

<210> 2331

<211> 437

<212> PRT

<213> Homo sapiens

<400> 2331

Met Ala Ala Ala Ile Thr Asp Met Ala Asp Leu Glu Glu Leu Ser Arg
 1 5 10 15
 Leu Ser Pro Leu Pro Pro Gly Ser Pro Gly Ser Ala Ala Arg Gly Arg
 20 25 30
 Ala Glu Pro Pro Glu Glu Glu Glu Glu Asp Glu Ser Ser Ser Ser Gly
 35 40 45
 Gly Gly Glu Glu Glu Ser Ser Ala Glu Ser Leu Val Gly Ser Ser Gly
 50 55 60
 Gly Ser Ser Ser Asp Glu Thr Arg Ser Leu Ser Pro Gly Ala Ala Ser
 65 70 75 80
 Ser Ser Ser Gly Asp Gly Asp Gly Lys Glu Gly Leu Glu Glu Pro Lys
 85 90 95

Gly Pro Arg Gly Ser Gln Gly Gly Gly Gly Gly Gly Ser Ser Ser Ser
100 105 110
Ser Val Val Ser Ser Gly Gly Asp Glu Gly Tyr Gly Thr Gly Gly Gly
115 120 125
Gly Ser Ser Ala Thr Ser Gly Gly Arg Arg Gly Ser Leu Glu Met Ser
130 135 140
Ser Asp Gly Glu Pro Leu Ser Arg Met Asp Ser Glu Asp Ser Ile Ser
145 150 155 160
Ser Thr Ile Met Asp Val Asp Ser Thr Ile Ser Ser Gly Arg Ser Thr
165 170 175
Pro Ala Met Met Asn Gly Gln Gly Ser Thr Thr Ser Ser Ser Lys Asn
180 185 190
Ile Ala Tyr Asn Cys Cys Trp Asp Gln Cys Gln Ala Cys Phe Asn Ser
195 200 205
Ser Pro Asp Leu Ala Asp His Ile Arg Ser Ile His Val Asp Gly Gln
210 215 220
Arg Gly Gly Val Phe Val Cys Leu Trp Lys Gly Cys Lys Val Tyr Asn
225 230 235 240
Thr Pro Ser Thr Ser Gln Ser Trp Leu Gln Arg His Met Leu Thr His
245 250 255
Ser Gly Asp Lys Pro Phe Lys Cys Val Val Gly Gly Cys Asn Ala Ser
260 265 270
Phe Ala Ser Gln Gly Gly Leu Ala Arg His Val Pro Thr His Phe Ser
275 280 285
Gln Gln Asn Ser Ser Lys Val Ser Ser Gln Pro Lys Ala Lys Glu Glu
290 295 300
Ser Pro Ser Lys Ala Gly Met Asn Lys Arg Arg Lys Leu Lys Asn Lys
305 310 315 320
Arg Arg Arg Ser Leu Pro Arg Pro His Asp Phe Phe Asp Ala Gln Thr

325	330	335
Leu Asp Ala Ile Arg His Arg Ala Ile Cys Phe Asn Leu Ser Ala His		
340	345	350
Ile Glu Ser Leu Gly Lys Gly His Ser Val Val Phe His Ser Thr Val		
355	360	365
Ile Ala Lys Arg Lys Glu Asp Ser Gly Lys Ile Lys Leu Leu Leu His		
370	375	380
Trp Met Pro Glu Asp Ile Leu Pro Asp Val Trp Val Asn Glu Ser Glu		
385	390	395
Arg His Gln Leu Lys Thr Lys Val Val His Leu Ser Lys Leu Pro Lys		
405	410	415
Asp Thr Ala Leu Leu Leu Asp Pro Asn Ile Tyr Arg Thr Met Pro Gln		
420	425	430
Lys Arg Leu Lys Arg		
435		

<210> 2332

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2332

Met Leu Leu Pro Pro Arg Asn Ile Ala Ser Lys Leu Pro Asp Ala Ala
1 5 10 15
Ala Lys Ser Lys Pro Gln Gln Ser Ala Ser Gly Asn Asn Glu Ser Ser
20 25 30
Gln Val Glu Ser Thr Lys Glu Gly Asn Pro Ser Thr Thr Ala Cys Asp
35 40 45

Ser Gln Asp Glu Gly Arg Pro Cys Ser Met Lys His Lys Glu Ser Pro
 50 55 60
 Pro Ser Asn Ala Thr Ala Glu Thr Glu Pro Ile Pro Gln Lys Leu Gln
 65 70 75 80
 Met Pro Pro Cys Ser Glu Cys Glu Val Lys Lys Ala Pro Glu Lys Pro
 85 90 95
 Leu Thr Ser Phe Glu Gly Met Ala Ala Arg Glu Glu Lys Ile Leu
 100 105 110

<210> 2333

<211> 702

<212> PRT

<213> Homo sapiens

<400> 2333

Met Asp Lys Arg Leu Val Val Ser Leu Leu Leu Cys Leu Leu Asp Trp
 1 5 10 15
 Ile Met Ala Leu Pro Leu Lys Thr Leu Leu Gln Pro Phe His Ala Thr
 20 25 30
 Gly Ala Glu Ser Asp Lys Thr Glu Lys Ser Val Leu Asn Cys Ile Tyr
 35 40 45
 Lys Val Leu His Gly Cys Val Tyr Gly Ala Gln Cys Phe Ser Asn Pro
 50 55 60
 Arg Tyr Phe Pro Met Ser Leu Ser Asp Leu Ala Ser Val Asp Tyr Asp
 65 70 75 80
 Pro Phe Met His Leu Glu Ser Leu Lys Glu Pro Glu Pro Leu His Ser
 85 90 95
 Pro Asp Ser Glu Arg Ser Ser Lys Leu Gln Pro Val Thr Glu Val Lys

100	105	110
Thr Gln Met Gln His Gly Leu Ile Ser Ile Ala Ala Arg Thr Val Ile		
115	120	125
Thr His Leu Val Asn His Leu Gly His Tyr Pro Met Ser Gly Gly Pro		
130	135	140
Ala Met Leu Thr Ser Gln Val Cys Glu Asn His Asp Asn His Tyr Ser		
145	150	155
Glu Ser Thr Glu Leu Ser Pro Glu Leu Phe Glu Ser Pro Asn Ile Gln		
165	170	175
Phe Phe Val Leu Asn Asn Thr Thr Leu Val Ser Cys Ile Gln Ile Arg		
180	185	190
Ser Glu Glu Asn Met Pro Gly Gly Gly Leu Ser Ala Gly Leu Ala Ser		
195	200	205
Ala Asn Ser Asn Val Arg Ile Ile Val Arg Asp Leu Ser Gly Lys Tyr		
210	215	220
Ser Trp Asp Ser Ala Ile Leu Tyr Gly Pro Pro Pro Val Ser Gly Leu		
225	230	235
Ser Glu Pro Thr Ser Phe Met Leu Ser Leu Ser His Gln Glu Lys Pro		
245	250	255
Glu Glu Pro Pro Thr Ser Asn Glu Cys Leu Glu Asp Ile Thr Val Lys		
260	265	270
Asp Gly Leu Ser Leu Gln Phe Lys Arg Phe Arg Glu Thr Val Pro Thr		
275	280	285
Trp Asp Thr Ile Arg Asp Glu Glu Asp Val Leu Asp Glu Leu Leu Gln		
290	295	300
Tyr Leu Gly Val Thr Ser Pro Glu Cys Leu Gln Arg Thr Gly Ile Ser		
305	310	315
Leu Asn Ile Pro Ala Pro Gln Pro Val Cys Ile Ser Glu Lys Gln Glu		
325	330	335

Asn Asp Val Ile Asn Ala Ile Leu Lys Gln His Thr Glu Glu Lys Glu
340 345 350
Phe Val Glu Lys His Phe Asn Asp Leu Asn Met Lys Ala Val Glu Gln
355 360 365
Asp Glu Pro Ile Pro Gln Lys Pro Gln Ser Ala Phe Tyr Tyr Cys Arg
370 375 380
Leu Leu Leu Ser Ile Leu Gly Met Asn Ser Trp Asp Lys Arg Arg Ser
385 390 395 400
Phe His Leu Leu Lys Lys Asn Glu Lys Leu Leu Arg Glu Leu Arg Asn
405 410 415
Leu Asp Ser Arg Gln Cys Arg Glu Thr His Lys Ile Ala Val Phe Tyr
420 425 430
Val Ala Glu Gly Gln Glu Asp Lys His Ser Ile Leu Thr Asn Thr Gly
435 440 445
Gly Ser Gln Ala Tyr Glu Asp Phe Val Ala Gly Leu Gly Trp Glu Val
450 455 460
Asn Leu Thr Asn His Cys Gly Phe Met Gly Gly Leu Gln Lys Asn Lys
465 470 475 480
Ser Thr Gly Leu Thr Thr Pro Tyr Phe Ala Thr Ser Thr Val Glu Val
485 490 495
Ile Phe His Val Ser Thr Arg Met Pro Ser Asp Ser Asp Asp Ser Leu
500 505 510
Thr Lys Lys Leu Arg His Leu Gly Asn Asp Glu Val His Ile Val Trp
515 520 525
Ser Glu His Thr Arg Asp Tyr Arg Arg Gly Ile Ile Pro Thr Glu Phe
530 535 540
Gly Asp Val Leu Ile Val Ile Tyr Pro Met Lys Asn His Met Phe Ser
545 550 555 560
Ile Gln Ile Met Lys Lys Pro Glu Val Pro Phe Phe Gly Pro Leu Phe

Pro Gly Thr Arg Cys Trp Ala Cys Thr Gly Gly Trp Ser Glu Gly Ala
 35 40 45
 Ser Gly Ala Ala Gly Lys Val Ala Pro Gly Arg Ala Ala Pro Phe Gly
 50 55 60
 Pro Ala Asn Gly Ala Ser Ser Ser Lys Leu Gln Ala Arg Pro Gly Ala
 65 70 75 80
 Gln Asp Thr Asp Leu Ser Arg Lys Gly Leu Leu Trp Ala Ser Ser Ser
 85 90 95
 His Cys Leu Arg Val Leu Gly Arg Pro Phe Cys Leu Phe Leu Thr Asp
 100 105 110
 Pro Cys Ala Pro Gly Leu Thr Trp Arg Thr Leu Ser Thr Pro Gln Pro
 115 120 125
 Trp Arg Pro Trp Arg Leu Leu Glu Arg Pro Ala Leu Pro Leu Asn Pro
 130 135 140
 Pro Ser Pro Ser Thr Leu Ala Phe Arg Lys Gln Ser Ile Leu Cys His
 145 150 155 160
 Gly Lys Ala Gln Glu Glu Glu Pro Lys Met Leu Gly Ser Gly Leu Met
 165 170 175
 Ala Leu Arg His Ser Arg Gly Pro Gly Ala Gly Val Cys Leu Leu
 180 185 190

<210> 2335

<211> 1006

<212> PRT

<213> Homo sapiens

<400> 2335

Met Pro Pro Ala Phe Ile Lys Val Glu Asn Ala Cys Thr Lys Leu Val

1	5	10	15
Gln Ala Ala Gln Met Leu Gln Ser Asp Pro Tyr Ser Val Pro Ala Arg			
20	25	30	
Asp Tyr Leu Ile Asp Gly Ser Arg Gly Ile Leu Ser Gly Thr Ser Asp			
35	40	45	
Leu Leu Leu Thr Phe Asp Glu Ala Glu Val Arg Lys Ile Ile Arg Val			
50	55	60	
Cys Lys Gly Ile Leu Glu Tyr Leu Thr Val Ala Glu Val Val Glu Thr			
65	70	75	80
Met Glu Asp Leu Val Thr Tyr Thr Lys Asn Leu Gly Pro Gly Met Thr			
85	90	95	
Lys Met Ala Lys Met Ile Asp Glu Arg Gln Gln Glu Leu Thr His Gln			
100	105	110	
Glu His Arg Val Met Leu Val Asn Ser Met Asn Thr Val Lys Glu Leu			
115	120	125	
Leu Pro Val Leu Ile Ser Ala Met Lys Ile Phe Val Thr Thr Lys Asn			
130	135	140	
Ser Lys Asn Gln Gly Ile Glu Glu Ala Leu Lys Asn Arg Asn Phe Thr			
145	150	155	160
Val Glu Lys Met Ser Ala Glu Ile Asn Glu Ile Ile Arg Val Leu Gln			
165	170	175	
Leu Thr Ser Trp Asp Glu Asp Ala Trp Ala Ser Lys Asp Thr Glu Ala			
180	185	190	
Met Lys Arg Ala Leu Ala Ser Ile Asp Ser Lys Leu Asn Gln Ala Lys			
195	200	205	
Gly Trp Leu Arg Asp Pro Ser Ala Ser Pro Gly Asp Ala Gly Glu Gln			
210	215	220	
Ala Ile Arg Gln Ile Leu Asp Glu Ala Gly Lys Val Gly Glu Leu Cys			
225	230	235	240

Ala Gly Lys Glu Arg Arg Glu Ile Leu Gly Thr Cys Lys Met Leu Glu			
	245	250	255
Gln Met Thr Asp Gln Val Ala Asp Leu Arg Ala Arg Gly Gln Gly Ser			
	260	265	270
Ser Pro Val Ala Met Gln Lys Ala Gln Gln Val Ser Gln Gly Leu Asp			
	275	280	285
Val Leu Thr Ala Lys Val Glu Asn Ala Ala Arg Lys Leu Glu Ala Met			
	290	295	300
Thr Asn Ser Lys Gln Ser Ile Ala Lys Lys Ile Asp Ala Ala Gln Asn			
305	310	315	320
Trp Leu Ala Asp Pro Asn Gly Gly Pro Glu Gly Glu Glu Gln Ile Arg			
	325	330	335
Gly Ala Leu Ala Glu Ala Arg Lys Ile Ala Glu Leu Cys Asp Asp Pro			
	340	345	350
Lys Glu Arg Asp Asp Ile Leu Arg Ser Leu Gly Glu Ile Ser Ala Leu			
	355	360	365
Thr Ser Lys Leu Ala Asp Leu Arg Arg Gln Gly Lys Gly Asp Ser Pro			
	370	375	380
Glu Ala Arg Ala Leu Ala Lys Gln Val Ala Thr Ala Leu Gln Asn Leu			
385	390	395	400
Gln Thr Lys Thr Asn Arg Ala Val Ala Asn Ser Arg Pro Ala Lys Ala			
	405	410	415
Ala Val His Leu Glu Gly Lys Ile Glu Gln Ala Gln Arg Trp Ile Asp			
	420	425	430
Asn Pro Thr Val Asp Asp Arg Gly Val Gly Gln Ala Ala Ile Arg Gly			
	435	440	445
Leu Val Ala Glu Gly His Arg Leu Ala Asn Val Met Met Gly Pro Tyr			
	450	455	460
Arg Gln Asp Leu Leu Ala Lys Cys Asp Arg Val Asp Gln Leu Thr Ala			

465 470 475 480
Gln Leu Ala Asp Leu Ala Ala Arg Gly Glu Gly Glu Ser Pro Gln Ala
 485 490 495
Arg Ala Leu Ala Ser Gln Leu Gln Asp Ser Leu Lys Asp Leu Lys Ala
 500 505 510
Arg Met Gln Glu Ala Met Thr Gln Glu Val Ser Asp Val Phe Ser Asp
 515 520 525
Thr Thr Thr Pro Ile Lys Leu Leu Ala Val Ala Ala Thr Ala Pro Pro
 530 535 540
Asp Ala Pro Asn Arg Glu Glu Val Phe Asp Glu Arg Ala Ala Asn Phe
545 550 555 560
Glu Asn His Ser Gly Lys Leu Gly Ala Thr Ala Glu Lys Ala Ala Ala
 565 570 575
Val Gly Thr Ala Asn Lys Ser Thr Val Glu Gly Ile Gln Ala Ser Val
 580 585 590
Lys Thr Ala Arg Glu Leu Thr Pro Gln Val Val Ser Ala Ala Arg Ile
 595 600 605
Leu Leu Arg Asn Pro Gly Asn Gln Ala Ala Tyr Glu His Phe Glu Thr
 610 615 620
Met Lys Asn Gln Trp Ile Asp Asn Val Glu Lys Met Thr Gly Leu Val
625 630 635 640
Asp Glu Ala Ile Asp Thr Lys Ser Leu Leu Asp Ala Ser Glu Glu Ala
 645 650 655
Ile Lys Lys Asp Leu Asp Lys Cys Lys Val Ala Met Ala Asn Ile Gln
 660 665 670
Pro Gln Met Leu Val Ala Gly Ala Thr Ser Ile Ala Arg Arg Ala Asn
 675 680 685
Arg Ile Leu Leu Ala Ala Lys Arg Glu Val Glu Asn Ser Glu Asp Pro
 690 695 700

Lys Phe Arg Glu Ala Val Lys Ala Ala Ser Asp Glu Leu Ser Lys Thr
705 710 715 720
Ile Ser Pro Met Val Met Asp Ala Lys Ala Val Ala Gly Asn Ile Ser
725 730 735
Asp Pro Gly Leu Gln Lys Ser Phe Leu Asp Ser Gly Tyr Arg Ile Leu
740 745 750
Gly Ala Val Ala Lys Val Arg Glu Ala Phe Gln Pro Gln Glu Pro Asp
755 760 765
Phe Pro Pro Pro Pro Pro Asp Leu Glu Gln Leu Arg Leu Thr Asp Glu
770 775 780
Leu Ala Pro Pro Lys Pro Pro Leu Pro Glu Gly Glu Val Pro Pro Pro
785 790 795 800
Arg Pro Pro Pro Pro Glu Glu Lys Asp Glu Glu Phe Pro Glu Gln Lys
805 810 815
Ala Gly Glu Val Ile Asn Gln Pro Met Met Met Ala Ala Arg Gln Leu
820 825 830
His Asp Glu Ala Arg Lys Trp Ser Ser Lys Gly Asn Asp Ile Ile Ala
835 840 845
Ala Ala Lys Arg Met Ala Leu Leu Met Ala Glu Met Ser Arg Leu Val
850 855 860
Arg Gly Gly Ser Gly Thr Lys Arg Ala Leu Ile Gln Cys Ala Lys Asp
865 870 875 880
Ile Ala Lys Ala Ser Asp Glu Val Thr Arg Leu Ala Lys Glu Val Ala
885 890 895
Lys Gln Cys Thr Asp Lys Arg Ile Arg Thr Asn Leu Leu Gln Val Cys
900 905 910
Glu Arg Ile Pro Thr Ile Ser Thr Gln Leu Lys Ile Leu Ser Thr Val
915 920 925
Lys Ala Thr Met Leu Gly Arg Thr Asn Ile Ser Asp Glu Glu Ser Glu

930	935	940	
Gln Ala Thr Glu Met Leu Val His Asn Ala Gln Asn Leu Met Gln Ser			
945	950	955	960
Val Lys Glu Thr Val Arg Glu Leu Lys Leu Leu Gln Ser Lys Phe Glu			
	965	970	975
Gln Met Leu Asp Leu His Cys Ala Gly Leu Glu Arg Leu Pro Gly Thr			
	980	985	990
Ser Arg His Leu Ala Glu Pro Gly Trp His Arg Asn Leu Tyr			
	995	1000	1005

<210> 2336

<211> 453

<212> PRT

<213> Homo sapiens

<400> 2336

Met Ala Ile Phe Arg Gln Leu Ser Leu Gly Ala Lys Ala Thr Leu Ala			
1	5	10	15
Ala Val Thr Val Phe Val Ser Met Ile Ala Ser Arg Ser Tyr Leu Ala			
	20	25	30
Glu Ser Leu Glu Leu Arg Ala Trp Arg Trp Leu Leu Arg Leu Gln Leu			
	35	40	45
Ala Leu Phe Val Asn Ser Leu Leu Leu Ile Gly Ser Leu Tyr Ile Trp			
	50	55	60
Arg Ser Thr Val Ser Asn Leu Cys His Ser Pro Ala Ala Glu Ser Thr			
	65	70	75
Cys Phe Gln Leu Trp Lys Val Val Val Leu Ala Phe Leu Ala Leu Ala			
	85	90	95

His Ser Ser Phe Phe Thr Met Phe Phe Leu Val Ala Glu Glu Pro Tyr
 100 105 110
 Leu Phe Ser Leu Ala Ala Tyr Ser Cys Leu Gly Ala Tyr Ile Ile Met
 115 120 125
 Leu Phe Phe Leu Phe Ile Leu Ser Gly Met Glu Gln Ala Tyr Gln Leu
 130 135 140
 Leu Ala Trp Arg Ser Gly Arg Val Val Gly Ser Leu Glu Lys Thr Arg
 145 150 155 160
 Lys Leu Val Leu Arg Pro Ala Leu Ala Val Gly Val Thr Ala Val Leu
 165 170 175
 Ser Val Ala Gly Ile Leu Asn Ala Ala Gln Pro Pro Ala Val Lys Thr
 180 185 190
 Val Glu Val Pro Ile His Gln Leu Pro Ala Ser Met Asn Asn Leu Lys
 195 200 205
 Val Val Leu Leu Ser Asp Ile His Leu Gly Pro Thr Val Gly Arg Thr
 210 215 220
 Lys Met Glu Met Phe Val Arg Met Val Asn Val Leu Glu Pro Asp Ile
 225 230 235 240
 Thr Val Ile Val Gly Asp Leu Ser Asp Ser Glu Ala Ser Val Leu Arg
 245 250 255
 Thr Ala Val Ala Pro Leu Gly Gln Leu Arg Ser His Leu Gly Ala Tyr
 260 265 270
 Phe Val Thr Gly Asn His Glu Tyr Tyr Thr Ser Asp Val Ser Asn Trp
 275 280 285
 Phe Ala Leu Leu Glu Ser Leu His Val Gln Pro Leu His Asn Glu Asn
 290 295 300
 Val Lys Ile Ser Ala Thr Arg Ala Gln Arg Gly Gly Gly Gly Ser Gly
 305 310 315 320
 Ser Gly Ser Glu Asp Glu Asp Trp Ile Cys Leu Ala Gly Val Asp Asp

325 330 335
 Ile Glu Ala Asp Ile Leu His Tyr Ser Gly His Gly Met Asp Leu Asp
 340 345 350
 Lys Ala Leu Glu Gly Cys Ser Pro Asp His Thr Ile Ile Leu Leu Ala
 355 360 365
 His Gln Pro Leu Ala Ala Lys Arg Ala Leu Gln Ala Arg Pro Asp Ile
 370 375 380
 Asn Leu Ile Leu Ser Gly His Thr His Ala Gly Gln Ile Phe Pro Leu
 385 390 395 400
 Asn Val Ala Ala Tyr Leu Leu Asn Pro Phe Phe Ala Gly Leu Tyr Gln
 405 410 415
 Val Ala Gln Ala Thr Phe Val Tyr Val Ser Pro Gly Thr Ala Tyr Tyr
 420 425 430
 Gly Ile Pro Met Arg Leu Gly Ser Arg Ala Glu Ile Thr Glu Leu Ile
 435 440 445
 Leu Gln Arg Ser Pro
 450

<210> 2337

<211> 834

<212> PRT

<213> Homo sapiens

<400> 2337

Met Glu Asp Gly Phe Ser Ser Tyr Ser Ser Leu Tyr Asp Thr Ser Ser
 1 5 10 15
 Leu Leu Gln Phe Cys Asn Asp Asp Ser Ala Ser Ala Ala Ser Ser Met
 20 25 30

Glu Val Thr Asp Arg Ile Ala Ser Leu Glu Gln Arg Val Gln Met Gln
 35 40 45
 Glu Asp Asp Ile Gln Leu Leu Lys Ser Ala Leu Ala Asp Val Val Arg
 50 55 60
 Arg Leu Asn Ile Thr Glu Glu Gln Gln Ala Val Leu Asn Arg Lys Gly
 65 70 75 80
 Pro Thr Lys Ala Arg Pro Leu Met Gln Thr Leu Pro Leu Arg Thr Thr
 85 90 95
 Val Asn Asn Gly Thr Val Leu Pro Lys Lys Pro Thr Gly Ser Leu Pro
 100 105 110
 Ser Pro Ser Gly Val Arg Lys Glu Thr Ala Val Pro Ala Thr Lys Arg
 115 120 125
 Leu Asn Arg Ser Val Ser Leu Leu Asn Ala Cys Lys Leu Asn Arg Ser
 130 135 140
 Thr Pro Ser Asn Ile Lys Arg Thr Ser Ser Ser Glu Arg Val Ser Pro
 145 150 155 160
 Gly Gly Arg Arg Glu Ser Asn Gly Asp Ser Arg Gly Asn Arg Asn Arg
 165 170 175
 Thr Gly Ser Thr Ser Ser Ser Ser Ser Gly Lys Lys Asn Ser Glu Ser
 180 185 190
 Lys Pro Lys Glu Pro Val Phe Ser Ala Glu Glu Gly Tyr Val Lys Met
 195 200 205
 Phe Leu Arg Gly Arg Pro Val Thr Met Tyr Met Pro Lys Asp Gln Val
 210 215 220
 Asp Ser Tyr Ser Leu Glu Ala Lys Val Glu Leu Pro Thr Lys Arg Leu
 225 230 235 240
 Lys Leu Glu Trp Val Tyr Gly Tyr Arg Gly Arg Asp Cys Arg Asn Asn
 245 250 255
 Leu Tyr Leu Leu Pro Thr Gly Glu Thr Val Tyr Phe Ile Ala Ser Val

260 265 270
Val Val Leu Tyr Asn Val Glu Glu Gln Leu Gln Arg His Tyr Ala Gly
275 280 285
His Asn Asp Asp Val Lys Cys Leu Ala Val His Pro Asp Arg Ile Thr
290 295 300
Ile Ala Thr Gly Gln Val Ala Gly Thr Ser Lys Asp Gly Lys Gln Leu
305 310 315 320
Pro Pro His Val Arg Ile Trp Asp Ser Val Thr Leu Asn Thr Leu His
325 330 335
Val Ile Gly Ile Gly Phe Phe Asp Arg Ala Val Thr Cys Ile Ala Phe
340 345 350
Ser Lys Ser Asn Gly Gly Thr Asn Leu Cys Ala Val Asp Asp Ser Asn
355 360 365
Asp His Val Leu Ser Val Trp Asp Trp Gln Lys Glu Glu Lys Leu Ala
370 375 380
Asp Val Lys Cys Ser Asn Glu Ala Val Phe Ala Val Asp Phe His Pro
385 390 395 400
Thr Asp Thr Asn Ile Ile Val Thr Cys Gly Lys Ser His Leu Tyr Phe
405 410 415
Trp Thr Leu Glu Gly Ser Ser Leu Asn Lys Lys Gln Gly Leu Phe Glu
420 425 430
Lys Gln Glu Lys Pro Lys Phe Val Leu Cys Val Thr Phe Ser Glu Asn
435 440 445
Gly Asp Thr Ile Thr Gly Asp Ser Ser Gly Asn Ile Leu Val Trp Gly
450 455 460
Lys Gly Thr Asn Arg Ile Ser Tyr Ala Val Gln Gly Ala His Glu Gly
465 470 475 480
Gly Ile Phe Ala Leu Cys Met Leu Arg Asp Gly Thr Leu Val Ser Gly
485 490 495

Ser Gly Lys Asp Arg Lys Leu Ile Ser Trp Ser Gly Asn Tyr Gln Lys
 500 505 510
 Leu Arg Lys Thr Glu Ile Pro Glu Gln Phe Gly Pro Ile Arg Thr Val
 515 520 525
 Ala Glu Gly Lys Gly Asp Val Ile Leu Ile Gly Thr Thr Arg Asn Phe
 530 535 540
 Val Leu Gln Gly Thr Leu Ser Gly Asp Phe Thr Pro Ile Thr Gln Gly
 545 550 555 560
 His Thr Asp Glu Leu Trp Gly Leu Ala Ile His Ala Ser Lys Pro Gln
 565 570 575
 Phe Leu Thr Cys Gly His Asp Lys His Ala Thr Leu Trp Asp Ala Val
 580 585 590
 Gly His Arg Pro Val Trp Asp Lys Ile Ile Glu Asp Pro Ala Gln Ser
 595 600 605
 Ser Gly Phe His Pro Ser Gly Ser Val Val Ala Val Gly Thr Leu Thr
 610 615 620
 Gly Arg Trp Phe Val Phe Asp Thr Glu Thr Lys Asp Leu Val Thr Val
 625 630 635 640
 His Thr Asp Gly Asn Glu Gln Leu Ser Val Met Arg Tyr Ser Pro Asp
 645 650 655
 Gly Asn Phe Leu Ala Ile Gly Ser His Asp Asn Cys Ile Tyr Ile Tyr
 660 665 670
 Gly Val Ser Asp Asn Gly Arg Lys Tyr Thr Arg Val Gly Lys Cys Ser
 675 680 685
 Gly His Ser Ser Phe Ile Thr His Leu Asp Trp Ser Val Asn Ser Gln
 690 695 700
 Phe Leu Val Ser Asn Ser Gly Asp Tyr Glu Ile Leu Tyr Trp Val Pro
 705 710 715 720
 Ser Ala Cys Lys Gln Val Val Ser Val Glu Thr Thr Arg Asp Ile Glu

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Glu Cys Ser Gly Ala Val Ser Ala His Cys Ser Leu Ser Leu Arg Gly
 50 55 60
 Ser Ile Asp Ser Pro Ala Ser Ala Ser Gln Val Ala Gly Thr Thr Gly
 65 70 75 80
 Met His Asn His Ala Gln Leu Ile Leu Leu Ser Glu Arg Gly Pro Asn
 85 90 95
 Pro Asp Pro Lys Arg Gly Phe Leu Asp Leu Ile Gln Glu Arg Ile Gln
 100 105 110
 Gly Lys Ser Ile Glu Glu Ser Glu Ser Gln Phe Thr Lys Gly Val Lys
 115 120 125
 Glu Trp Leu Leu His Arg Gln Lys Ser Pro Lys Ser Cys Trp Leu Pro
 130 135 140
 Ile Phe Met Val Ile Ser
 145 150

<210> 2339

<211> 140

<212> PRT

<213> Homo sapiens

<400> 2339

Met Phe Ala Arg Leu Cys Pro Val Ser Glu Thr Phe Gly Arg Leu Cys
 1 5 10 15
 Pro Val Ser Glu Thr Phe Ala Arg Leu Cys Pro Val Ser Glu Thr Phe
 20 25 30
 Ala Arg Leu Cys Pro Val Ser Glu Thr Phe Ala Arg Leu Cys Pro Val
 35 40 45
 Ser Glu Thr Phe Gly Arg Leu Cys Pro Val Ser Glu Met Phe Gly Arg

50 55 60
 Leu Ser Pro Val Ser Glu Thr Phe Gly Arg Leu Cys Pro Val Ser Glu
 65 70 75 80
 Thr Phe Gly Arg Leu Cys Pro Val Ser Glu Met Phe Ala Arg Leu Cys
 85 90 95
 Pro Val Ser Glu Thr Phe Gly Arg Leu Ser Pro Val Ser Glu Met Phe
 100 105 110
 Gly Arg Leu Cys Pro Val Ser Glu Met Phe Gly Arg Leu Cys Pro Val
 115 120 125
 Ser Glu Met Phe Gly Arg Leu Cys Pro Val Ile Thr
 130 135 140

<210> 2340

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2340

Met Asp Val Phe Ser Pro Lys Arg Ser Cys Pro Ser Gln Cys Ser Thr
 1 5 10 15
 Ala Gln Gln Val Ala Glu Leu Ser Thr Arg Glu Gln Trp Leu Cys Pro
 20 25 30
 Thr Gly Ser Gln Asp Thr Ser Cys Pro Pro Leu Gly Met Phe Pro Val
 35 40 45
 Leu Ser Ser Thr Val Ser Ala Ala Gln Leu Ser Ala Val Gly Asp Arg
 50 55 60
 Cys Pro Gln Leu Cys Phe Leu Met Arg Leu Leu Ala Cys Ile Pro Ser
 65 70 75 80

Met Ala Gln Leu Gly Pro Trp Gln Leu Cys Trp Leu Leu Ala Val Phe
 85 90 95
 Thr His Arg Ala Gly His Leu Cys Ser Thr Pro Val Pro Ser Leu Leu
 100 105 110
 Leu Leu Ser Leu Cys Phe Pro Ala His Ile Phe Thr Phe Ser Asp Leu
 115 120 125
 Phe Leu
 130

<210> 2341

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2341

Met Val Tyr Ile Tyr His Ile Phe Cys Leu Ser Pro Ser Phe Leu Pro
 1 5 10 15
 Ser Phe Ile Pro Ser Leu Ser Leu Ser Phe Phe Leu Ser Asp Arg Val
 20 25 30
 Leu Leu Cys Cys Pro Gly Trp Ser Ala Val Val Trp Ser His Leu Thr
 35 40 45
 Ala Ala Ser Ala Ser Trp Val Gln Val Thr Ser Pro Ala Trp Ala Ser
 50 55 60
 Gln Val Ala Gly Ser Gly Gly Ala Arg Tyr Tyr Ala Trp Leu Ile Phe
 65 70 75 80
 Leu Cys Phe Trp Trp Arg Arg Gly Phe Ala Val Leu Asp Gly Leu Gly
 85 90 95
 Leu Gly Leu Pro Thr Ser Arg Gly Pro Pro Ala Leu Ala Ser Gln Ser

100 105 110
Ala Gly Ile Ala Gly Val Gly His Arg Ala Gln Pro Thr Phe Ser Leu
115 120 125
Ser Ser Leu Pro Leu Met Gly Ile
130 135

<210> 2342

<211> 250

<212> PRT

<213> Homo sapiens

<400> 2342

Met Lys Thr Leu Phe Glu Glu Ile Lys Ala Ser Ile Lys Asn Asn Tyr
1 5 10 15
Asn Gln Asp Arg Ser Phe Cys Arg Pro Val Leu Pro Trp Gly Gly Val
20 25 30
Phe Thr Ile Lys Ala Gly Arg Lys Ala Val Ser Cys Thr Pro Leu Tyr
35 40 45
Val Glu Ile Arg Leu Lys Asn Thr Cys Thr Ile Asp Gly Phe Leu Met
50 55 60
Leu Leu Tyr Val Ile Leu Asn Glu Asn Glu Asn Phe Pro Arg Glu Leu
65 70 75 80
Ser Leu His Phe Gly Arg Glu Phe Val Asp Cys Phe Leu Tyr Leu Met
85 90 95
Asp Thr Tyr Ser Phe Thr Thr Val Lys Leu Leu Trp Ile Trp Asp Lys
100 105 110
Met Glu Lys Gln Gln Tyr Lys Ser Glu Val His Lys Ala Ser Leu Ile
115 120 125

Ile Asp Leu Phe Gly Asn Glu His Asp Asn Phe Thr Lys Asn Leu Glu
 130 135 140
 Asn Leu Met Ser Thr Ile Gln Glu Ser Tyr Cys Ser Asn Trp Arg Cys
 145 150 155 160
 Pro Thr Arg Val Gln Glu Asp Gln Gln Arg Thr Ile Asn Ile Asn Pro
 165 170 175
 Pro Gln Glu Ile Pro His Gly Asn Leu Ile Arg Leu Ala Val Asn Glu
 180 185 190
 Leu Phe Cys Ser Lys Ile Glu Leu Cys Glu Glu His Gly Cys Gly Gly
 195 200 205
 Leu Arg Glu Phe Ser Gln Arg Ile Phe Cys His Gly Ala Pro Pro Phe
 210 215 220
 Val Val Leu Asn Met Gln His Trp Lys Ser Glu Asp Leu Ala Tyr Val
 225 230 235 240
 Pro Tyr Tyr Leu Asp Leu Ser Asp His Lys
 245 250

<210> 2343

<211> 360

<212> PRT

<213> Homo sapiens

<400> 2343

Met Ser Ala Ala Gly Leu Lys Ile Thr Gly Ser Lys Glu Thr Lys Arg
 1 5 10 15
 Arg Leu Leu Leu Ile Ser Ile Asp Trp Ser Arg Asp Leu Met Asn Leu
 20 25 30
 Cys Ile Tyr Phe Arg Val Tyr Cys Gln Glu Lys Gln Glu Glu Arg Arg

35	40	45
Glu Leu Pro Arg Ile Ile Thr Gly Pro Pro Pro Glu Ala Ala Val Val		
50	55	60
Ala Phe Glu Trp Leu Lys Thr Ser Thr Leu Thr Gly Leu His Pro Gln		
65	70	75
80		
Leu Pro Leu Ser Leu Pro Gln Pro Glu Cys Ala Leu Pro Tyr Leu Val		
85	90	95
Arg Ala Phe Ser Arg Gly Asp Tyr Met Gly Arg Ile Gln Glu Val Gly		
100	105	110
Trp Val Thr Ala Gly Leu Val Ile Trp Ala Gly Thr Cys Tyr Tyr Ile		
115	120	125
Tyr Lys Phe Thr Lys Gly Arg Ala Gln Ser Val Arg Thr Leu Ala Arg		
130	135	140
Asn Gly Ser Thr Val Lys Met Glu Thr Val Val Gly Val Gln Ser Gln		
145	150	155
160		
Thr Leu Ala Ile Asn Glu Ala Glu Ile Lys Thr Lys Pro Gln Val Glu		
165	170	175
Ile Gly Ala Glu Thr Gly Ala Arg Ser Gly Pro Gly Ala Glu Val Glu		
180	185	190
Thr Lys Ala Thr Ala Ile Ala Ile His Arg Ala Asn Ser Gln Ala Lys		
195	200	205
Ala Met Val Gly Ala Glu Pro Glu Thr Gln Ser Glu Ser Lys Val Val		
210	215	220
Ala Gly Thr Leu Val Met Thr Glu Ala Val Thr Leu Thr Glu Val Lys		
225	230	235
240		
Ala Lys Ala Arg Glu Val Ala Met Lys Glu Ala Val Thr Gln Thr Asp		
245	250	255
Ala Glu Ala Gly Lys Ile Val Lys Lys Glu Ala Val Thr Gln Thr Lys		
260	265	270

Ala Lys Ala Trp Ala Leu Val Ala Lys Thr Glu Ala Lys Arg Glu Ala
275 280 285
Met Thr Gln Thr Lys Ala Glu Thr His Ile Leu Ala Glu Lys Glu Thr
290 295 300
Glu Ile Asn Arg Val Met Val Thr Gln Ser Glu Thr Leu Ala Val Pro
305 310 315 320
Arg Glu Val Ala Lys Met Gly Ala Thr Asn Lys Thr Gly Ile Val Asp
325 330 335
Glu Thr Lys Thr Arg Ala Leu Glu Glu Thr Val Leu Ile Pro Arg Ala
340 345 350
Phe Pro Ser Lys Asn Ala Ser Cys
355 360

<210> 2344

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2344

Met Thr Val Thr Asp Phe Gly Trp Glu Asp Ala Leu His Thr Val Arg
1 5 10 15
Ala Gly Arg Ser Cys Ala Asn Pro Asn Val Gly Phe Gln Arg Gln Leu
20 25 30
Gln Glu Phe Glu Lys His Glu Val His Gln Tyr Arg Gln Trp Leu Lys
35 40 45
Glu Glu Tyr Gly Glu Ser Pro Leu Gln Asp Ala Glu Glu Ala Lys Asn
50 55 60
Ile Leu Gly Lys Tyr Lys Glu Gln Gly Arg Thr Glu Pro Gln Pro Gly

65	70	75	80
Ala Arg Arg Trp Ser Ser Phe Pro Ala Leu Ala Pro Leu Thr Tyr Asp			
	85	90	95
Asn Tyr Thr Thr Glu Thr			
100			

<210> 2345

<211> 628

<212> PRT

<213> Homo sapiens

<400> 2345

Met Leu Thr Cys Ile Leu Trp Met Leu Ser Val Leu Met Leu Gly Asn			
1	5	10	15
Ser Val Leu Trp Cys Arg Thr Asn Thr Arg Ser His Leu Gln Val Phe			
20	25	30	
Tyr Pro Tyr Lys Lys Val His Val Leu Phe Glu Ile Phe Val His Thr			
35	40	45	
Lys Ile Ile Met Tyr Phe Tyr Ser Val Phe Ser Phe Met Phe Pro Val			
50	55	60	
Ala Gly Gly Ile Arg Pro Pro Gln Ala Gly Leu Met Pro Met Gln Gln			
65	70	75	80
Gln Gly Phe Pro Met Val Ser Val Met Gln Pro Asn Met Gln Gly Ile			
85	90	95	
Met Gly Met Asn Tyr Ser Ser Gln Met Ser Gln Gly Pro Ile Ala Met			
100	105	110	
Gln Ala Gly Ile Pro Met Gly Pro Met Pro Ala Ala Gly Met Pro Tyr			
115	120	125	

Leu Gly Gln Ala Pro Phe Leu Gly Met Arg Pro Pro Gly Pro Gln Tyr
130 135 140
Thr Pro Asp Met Gln Lys Gln Phe Ala Glu Glu Gln Gln Lys Arg Phe
145 150 155 160
Glu Gln Gln Gln Lys Leu Leu Glu Glu Glu Arg Lys Arg Arg Gln Phe
165 170 175
Glu Glu Gln Lys Gln Lys Leu Arg Leu Leu Ser Ser Val Lys Pro Lys
180 185 190
Thr Gly Glu Lys Ser Arg Asp Asp Ala Leu Glu Ala Ile Lys Gly Asn
195 200 205
Leu Asp Gly Phe Ser Arg Asp Ala Lys Met His Pro Thr Pro Ala Ser
210 215 220
His Pro Lys Lys Pro Asp Cys Pro Thr Ser Ser His Ser Thr Lys Thr
225 230 235 240
Val Ser Pro Ser Pro Ala Phe Leu Asp Glu Glu Glu Phe Ser Asp Phe
245 250 255
Met Gln Gly Pro Val Glu Val Pro Pro Cys Gly Pro Ser Ser Thr Ser
260 265 270
Gln Pro Phe Gln Ser Phe His Pro Ser Thr Pro Leu Gly Gln Leu His
275 280 285
Thr Gln Lys Ala Gly Thr Gln Pro Leu Pro Pro Ser Gln Ser Pro Val
290 295 300
Pro Phe Ala Leu His Gly Val Pro Gly Gln Ile Pro Tyr Phe Ser Thr
305 310 315 320
Ala Ser Ala Ser His Ser Val Pro Glu Ala Gly Pro Ser Leu Glu Glu
325 330 335
Lys Phe Leu Val Ser Cys Asp Ile Ser Thr Pro Gly Gln Glu Gln Ile
340 345 350
Lys Leu Asn Thr Ser Glu Val Gly His Lys Ala Leu Gly Pro Gly Ser

355 360 365
Ser Lys Lys Tyr Pro Ser Leu Met Ala Ser Asn Gly Val Ala Val Asp
370 375 380
Gly Cys Val Ser Gly Thr Thr Thr Ala Glu Ala Glu Asn Thr Ser Asp
385 390 395 400
Gln Asn Leu Ser Ile Glu Glu Ser Gly Val Gly Val Phe Pro Ser Gln
405 410 415
Asp Pro Ala Gln Pro Arg Met Pro Pro Trp Ile Tyr Asn Glu Ser Leu
420 425 430
Val Pro Asp Ala Tyr Lys Lys Ile Leu Glu Thr Thr Met Thr Pro Thr
435 440 445
Gly Ile Asp Thr Ala Lys Leu Tyr Pro Ile Leu Met Ser Ser Gly Leu
450 455 460
Pro Arg Glu Thr Leu Gly Gln Ile Trp Ala Leu Ala Asn Arg Thr Thr
465 470 475 480
Pro Gly Arg Leu Thr Lys Glu Glu Leu Tyr Thr Val Leu Ala Met Ile
485 490 495
Ala Val Thr Gln Arg Gly Val Pro Ala Met Ser Pro Asp Ala Leu Asn
500 505 510
Gln Phe Pro Ala Ala Pro Ile Pro Thr Leu Ser Gly Phe Ser Met Thr
515 520 525
Leu Pro Thr Pro Val Ser Gln Pro Thr Val Ile Pro Ser Gly Pro Ala
530 535 540
Gly Ser Met Pro Leu Ser Leu Gly Gln Pro Val Met Gly Ile Asn Leu
545 550 555 560
Val Gly Pro Val Gly Gly Ala Ala Ala Gln Ala Ser Ser Gly Phe Ile
565 570 575
Pro Thr Tyr Pro Ala Asn Gln Val Val Lys Pro Glu Glu Asp Asp Phe
580 585 590

Gln Asp Phe Gln Asp Ala Ser Lys Ser Gly Ser Leu Asp Asp Ser Phe
 595 600 605
 Ser Asp Phe Gln Glu Leu Pro Ala Ser Ser Lys Thr Ser Asn Ser Gln
 610 615 620
 His Gly Asn Arg
 625

<210> 2346

<211> 519

<212> PRT

<213> Homo sapiens

<400> 2346

Met Leu Gly Glu Ile Thr His Leu Gln Thr Ile Ser Glu Asp Leu Lys
 1 5 10 15
 Ser Leu Thr Met Asp Pro His Lys Leu Pro Ser Ser Ser Glu Gln Val
 20 25 30
 Ile Leu Asp Leu Lys Gly Ser Asp Tyr Ser Trp Ser Tyr Gln Thr Pro
 35 40 45
 Pro Ser Ser Pro Ser Thr Thr Met Ser Arg Lys Ser Ser Val Cys Ser
 50 55 60
 Ser Leu Asn Ser Val Asn Ser Ser Asp Ser Arg Ser Ser Gly Ser His
 65 70 75 80
 Ser His Ser Pro Ser Ser His Tyr Arg Tyr Arg Ser Ser Asn Leu Ala
 85 90 95
 Gln Gln Ala Pro Val Arg Leu Ser Ser Val Ser Ser His Asp Ser Gly
 100 105 110
 Phe Ile Ser Gln Asp Ala Phe Gln Ser Lys Ser Pro Ser Pro Met Pro

115 120 125
Pro Glu Ala Pro Asn Gln Asn Ser Ser Ser Ser Ala Ser Ser Glu Ala
130 135 140
Ser Glu Thr Cys Gln Ser Val Ser Glu Cys Ser Ser Pro Thr Ser Val
145 150 155 160
Ser Ser Gly Ser Thr Met Gly Ala Trp Val Ser Thr Glu Lys Asp Trp
165 170 175
Ala Lys Pro Gly Pro Tyr Asp Gln Pro Leu Val Asn Thr Leu Gln Arg
180 185 190
Arg Lys Glu Lys Arg Glu Pro Asp Pro Asn Gly Gly Gly Pro Thr Thr
195 200 205
Ala Ser Gly Pro Pro Ala Ala Ala Glu Glu Ala Gln Arg Pro Arg Ser
210 215 220
Met Thr Val Ser Ala Ala Thr Arg Pro Gly Glu Glu Met Glu Ala Cys
225 230 235 240
Glu Glu Leu Ala Leu Ala Leu Ser Arg Gly Leu Gln Leu Asp Thr Gln
245 250 255
Arg Ser Ser Arg Asp Ser Leu Gln Cys Ser Ser Gly Tyr Ser Thr Gln
260 265 270
Thr Thr Thr Pro Cys Cys Ser Glu Asp Thr Ile Pro Ser Gln Val Ser
275 280 285
Asp Tyr Asp Tyr Phe Ser Val Ser Gly Asp Gln Glu Ala Asp Gln Gln
290 295 300
Glu Phe Asp Lys Ser Ser Thr Ile Pro Arg Asn Ser Asp Ile Ser Gln
305 310 315 320
Ser Tyr Arg Arg Met Phe Gln Ala Lys Arg Pro Ala Ser Thr Ala Gly
325 330 335
Leu Pro Thr Thr Leu Gly Pro Ala Met Val Thr Pro Gly Val Ala Thr
340 345 350

Ile Arg Arg Thr Pro Ser Thr Lys Pro Ser Val Arg Arg Gly Thr Ile
355 360 365
Gly Ala Gly Pro Ile Pro Thr Lys Thr Pro Val Ile Pro Val Lys Thr
370 375 380
Pro Thr Val Pro Asp Leu Pro Gly Val Leu Pro Ala Pro Pro Asp Gly
385 390 395 400
Pro Glu Glu Arg Gly Glu His Ser Pro Glu Ser Pro Ser Val Gly Glu
405 410 415
Gly Pro Gln Gly Val Thr Ser Met Pro Ser Ser Met Trp Ser Gly Gln
420 425 430
Ala Ser Val Asn Pro Pro Leu Pro Gly Pro Lys Pro Ser Ile Pro Glu
435 440 445
Glu His Arg Gln Ala Ile Pro Glu Ser Glu Ala Glu Asp Gln Glu Arg
450 455 460
Glu Pro Pro Ser Ala Thr Val Ser Pro Gly Gln Ile Pro Glu Ser Asp
465 470 475 480
Pro Ala Asp Leu Ser Pro Arg Asp Thr Pro Gln Gly Glu Asp Met Leu
485 490 495
Asn Ala Ile Arg Arg Gly Val Lys Leu Lys Lys Thr Thr Thr Asn Asp
500 505 510
Arg Ser Ala Pro Arg Phe Ser
515

<210> 2347

<211> 472

<212> PRT

<213> Homo sapiens

<400> 2347

Met Lys Met Gln Val Phe Cys Lys Lys Ser Ile Glu Asp Met Thr Val
 1 5 10 15
 Lys Ala Glu Gln Ser Gln Gln Glu Ala Ala Lys Lys His Glu Glu Glu
 20 25 30
 Lys Lys Glu Leu Glu Arg Lys Leu Ser Asp Leu Glu Lys Lys Met Glu
 35 40 45
 Thr Ser His Asn Gln Cys Gln Glu Leu Lys Ala Arg Tyr Glu Arg Ala
 50 55 60
 Thr Ser Glu Thr Lys Thr Lys His Glu Glu Ile Leu Gln Asn Leu Gln
 65 70 75 80
 Lys Thr Leu Leu Asp Thr Glu Asp Lys Leu Lys Gly Ala Arg Glu Glu
 85 90 95
 Asn Ser Gly Leu Leu Gln Glu Leu Glu Glu Leu Arg Lys Gln Ala Asp
 100 105 110
 Lys Ala Lys Ala Ala Gln Thr Ala Glu Asp Ala Met Gln Ile Met Glu
 115 120 125
 Gln Met Thr Lys Glu Lys Thr Glu Thr Leu Ala Ser Leu Glu Asp Thr
 130 135 140
 Lys Gln Thr Asn Ala Lys Leu Gln Asn Glu Leu Asp Thr Leu Lys Glu
 145 150 155 160
 Asn Asn Leu Lys Asn Val Glu Glu Leu Asn Lys Ser Lys Glu Leu Leu
 165 170 175
 Thr Val Glu Asn Gln Lys Met Glu Glu Phe Arg Lys Glu Ile Glu Thr
 180 185 190
 Leu Lys Gln Ala Ala Ala Gln Lys Ser Gln Gln Leu Ser Ala Leu Gln
 195 200 205
 Glu Glu Asn Val Lys Leu Ala Glu Glu Leu Gly Arg Ser Arg Asp Glu
 210 215 220

Val Thr Ser His Gln Lys Leu Glu Glu Glu Arg Ser Val Leu Asn Asn
225 230 235 240
Gln Leu Leu Glu Met Lys Lys Arg Glu Ser Lys Phe Ile Lys Asp Ala
245 250 255
Asp Glu Glu Lys Ala Ser Leu Gln Lys Ser Ile Ser Ile Thr Ser Ala
260 265 270
Leu Leu Thr Glu Lys Asp Ala Glu Leu Glu Lys Leu Arg Asn Glu Val
275 280 285
Thr Val Leu Arg Gly Glu Asn Ala Ser Ala Lys Ser Leu His Ser Val
290 295 300
Val Gln Thr Leu Glu Ser Asp Lys Val Lys Leu Glu Leu Lys Val Lys
305 310 315 320
Asn Leu Glu Leu Gln Leu Lys Glu Asn Lys Arg Gln Leu Ser Ser Ser
325 330 335
Ser Gly Asn Thr Asp Thr Gln Ala Asp Glu Asp Glu Arg Ala Gln Glu
340 345 350
Ser Gln Gln Met Ile Asp Phe Leu Asn Ser Val Ile Val Asp Leu Gln
355 360 365
Arg Lys Asn Gln Asp Leu Lys Met Lys Val Glu Met Met Ser Glu Ala
370 375 380
Ala Leu Asn Gly Asn Gly Asp Asp Leu Asn Asn Tyr Asp Ser Asp Asp
385 390 395 400
Gln Glu Lys Gln Ser Lys Lys Lys Pro Arg Leu Phe Cys Asp Ile Cys
405 410 415
Asp Cys Phe Asp Leu His Asp Thr Glu Asp Cys Pro Thr Gln Ala Gln
420 425 430
Met Ser Glu Asp Pro Pro His Ser Thr His His Gly Ser Arg Gly Glu
435 440 445
Glu Arg Pro Tyr Cys Glu Ile Cys Glu Met Phe Gly His Trp Ala Thr

出証特 2 0 0 4 - 3 0 5 9 6 6 1

<212> PRT

<213> Homo sapiens

<400> 2349

Met Gln Gln Asn Ser Gln Cys Pro Ser Asp Trp Leu Val Pro Asn Ile

1 5 10 15

Gly Arg Val Arg Lys Val Asn Phe Asn Val Asn Phe Gln Thr Ser Gly

20 25 30

Phe Asn Gln Tyr Asn Glu Asn Ile Pro His Leu Pro Asn Lys Gln Cys

35 40 45

Gly Ser Ser Leu Trp Ala Cys Ser Leu Pro Ser Ile Gln Gly His Arg

50 55 60

Leu Gly Pro Cys Arg Phe Leu Arg Asp Pro Leu His Ala Ile Gly Arg

65 70 75 80

Tyr Gly Glu Arg Glu His Gly Lys Ser Met Glu Val Pro Met Ser Gln

85 90 95

Asp Ser His Gly Ala Pro Asn Phe His His Ile Leu Phe Thr Glu Ser

100 105 110

Ala Met

<210> 2350

<211> 369

<212> PRT

<213> Homo sapiens

<400> 2350

Met Glu Leu Lys Lys Asp Ile Asn Ala Val Ser Ile Asp Met Leu Leu

1	5	10	15
Ile Val His Ser Glu Lys Arg Arg Ala Ala Gln Gly Phe Gln Gly Val			
20	25	30	
Gly Asn Gly Val Arg Arg Trp Gln Lys Leu Glu Gly Asn Asp Phe His			
35	40	45	
Gly Thr Gln Leu Thr Val Glu Val His Pro Arg Asp Ala Met Pro Gln			
50	55	60	
Leu Leu Lys Lys Phe Ser Leu Ala Lys Arg Leu Gln Gly Asp Lys Asn			
65	70	75	80
Gly Asn Thr Arg Pro Arg Gln Pro Gly Gly Lys Asp Ala His Ala Tyr			
85	90	95	
Pro Trp Asp Arg Ser Ser Leu Lys Ser Met Ser Leu Glu Arg Val Arg			
100	105	110	
Ala Ile Trp Ile Trp Ile Cys His His Ile Glu Tyr Asp Ile Ala Ala			
115	120	125	
Ala Gln Glu Lys Asp Arg Gln Ala Phe Lys Pro Thr Asp Ile Leu Arg			
130	135	140	
Thr Gln Lys Thr Asn Cys Asp Gly Tyr Ala Gly Leu Phe Glu Arg Met			
145	150	155	160
Cys Arg Leu Ala Gly Val Gln Cys Met Thr Val Pro Gly Tyr Ser Lys			
165	170	175	
Gly Phe Gly Tyr Gln Thr Gly Gln Ser Phe Ser Gly Glu Phe Asp His			
180	185	190	
Ala Trp Asn Ala Val Tyr Leu Glu Gly Arg Trp His Leu Val Asp Ser			
195	200	205	
Thr Trp Gly Ser Gly Leu Val Asp Thr Ile Thr Ser Lys Phe Thr Phe			
210	215	220	
Leu Tyr Asn Glu Phe Tyr Phe Leu Thr His Pro Ala Leu Phe Ile Glu			
225	230	235	240

Asp His Phe Pro Asp Asn Lys Asn Trp Gln Leu Leu Lys Pro Pro Gln
 245 250 255
 Ser Leu Arg Gln Phe Glu Asn Asn Met Tyr His Lys Ser Glu Phe Tyr
 260 265 270
 Asn Lys Gly Met Leu Ser Ala His Pro Glu Thr Ser Met Ile Arg Thr
 275 280 285
 Gly Glu Pro Gly Ala Gly Ala Ser Val Leu Ala Ala Gly Met Glu His
 290 295 300
 Phe Ala Leu Ser Ser Arg Ser Pro Pro Glu Thr Ala Leu Ser Arg His
 305 310 315 320
 Ala Leu Pro Asp Ala Trp Leu Val Ser Leu Ala Gln Ser Leu Cys Val
 325 330 335
 His Val Asp Glu Trp Arg Leu Leu Arg Gln Pro Arg Pro Ser Gly Gln
 340 345 350
 Gly Arg Ala Ile Gly His Ile Ser Arg Asp Lys Ser Ser Leu Thr Leu
 355 360 365
 Ala

<210> 2351

<211> 738

<212> PRT

<213> Homo sapiens

<400> 2351

Met Gln Phe Leu His Lys Leu Ile Leu Asn His Asn Pro Leu Thr Thr
 1 5 10 15
 Val Glu Asp Pro Tyr Leu Phe Lys Leu Pro Ala Leu Lys Tyr Leu Asp

20	25	30
Met Gly Thr Thr Leu Val Pro Leu Thr Thr Leu Lys Asn Ile Leu Met		
35	40	45
Met Thr Val Glu Leu Glu Lys Leu Ile Leu Pro Ser His Met Ala Cys		
50	55	60
Cys Leu Cys Gln Phe Lys Asn Ser Ile Glu Ala Val Cys Lys Thr Val		
65	70	75
Lys Leu His Cys Asn Ser Ala Cys Leu Thr Asn Thr Ile His Cys Pro		
85	90	95
Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met Lys Val Leu		
100	105	110
Gln Ala Arg Lys Asn Tyr Thr Ser Thr Glu Leu Ile Val Glu Pro Glu		
115	120	125
Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe Gly Ser Glu		
130	135	140
Gln Leu Asp Thr Asn Asp Glu Ser Asp Phe Ile Ser Thr Leu Arg Tyr		
145	150	155
Ile Leu Pro Tyr Phe Ser Ala Val Asn Leu Asp Val Lys Ser Leu Leu		
165	170	175
Leu Pro Leu Ile Lys Leu Pro Thr Thr Gly Asn Ser Leu Ala Lys Ile		
180	185	190
Gln Thr Val Gly Gln Asn Arg Gln Arg Val Lys Arg Val Leu Met Gly		
195	200	205
Pro Arg Ser Ile Gln Lys Arg His Phe Lys Glu Val Gly Arg Gln Ser		
210	215	220
Ile Arg Arg Glu Gln Gly Ala Gln Ala Ser Val Glu Asn Ala Ala Glu		
225	230	235
Glu Lys Arg Leu Gly Ser Pro Ala Pro Arg Glu Val Glu Gln Pro His		
245	250	255

Thr Gln Gln Gly Pro Glu Lys Leu Ala Gly Asn Ala Val Tyr Thr Lys
260 265 270
Pro Ser Phe Thr Gln Glu His Lys Ala Ala Val Ser Val Leu Lys Pro
275 280 285
Phe Ser Lys Gly Ala Pro Ser Thr Ser Ser Pro Ala Lys Ala Leu Pro
290 295 300
Gln Val Arg Asp Arg Trp Lys Asp Leu Thr His Ala Ile Ser Ile Leu
305 310 315 320
Glu Ser Ala Lys Ala Arg Val Thr Asn Thr Lys Thr Ser Lys Pro Ile
325 330 335
Val His Ala Arg Lys Glu Tyr Arg Phe His Lys Thr Arg Ser His Val
340 345 350
Thr His Arg Thr Pro Lys Val Lys Lys Ser Pro Lys Val Arg Lys Lys
355 360 365
Ser Tyr Leu Ser Arg Leu Met Leu Ala Asn Arg Leu Pro Phe Ser Ala
370 375 380
Ala Lys Ser Leu Ile Asn Ser Pro Ser Gln Gly Ala Phe Ser Ser Leu
385 390 395 400
Gly Asp Leu Ser Pro Gln Glu Asn Pro Phe Leu Glu Val Ser Ala Pro
405 410 415
Ser Glu His Phe Ile Glu Lys Asn Asn Thr Lys His Thr Thr Ala Arg
420 425 430
Asn Ala Phe Glu Glu Asn Asp Phe Met Glu Asn Thr Asn Met Pro Glu
435 440 445
Gly Thr Ile Ser Glu Asn Thr Asn Tyr Asn His Pro Pro Glu Ala Asp
450 455 460
Ser Ala Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys Gln Thr Glu
465 470 475 480
Thr Lys Trp Glu Tyr Asn Asn Val Gly Thr Asp Pro Ser Pro Glu Pro

	485		490		495
Lys Ser Phe Asn Tyr Pro Leu Leu Ser Ser Pro Gly Asp Gln Phe Glu					
	500		505		510
Ile Gln Leu Thr Gln Gln Leu Gln Ser Leu Ile Pro Asn Asn Asn Val					
	515		520		525
Arg Arg Leu Ile Ala His Val Ile Arg Thr Leu Lys Met Asp Cys Ser					
	530		535		540
Gly Ala His Val Gln Val Thr Cys Ala Lys Leu Ile Ser Arg Thr Gly					
545		550		555	560
His Leu Met Lys Leu Leu Ser Gly Gln Gln Glu Val Lys Ala Ser Lys					
	565		570		575
Ile Glu Trp Asp Thr Asp Gln Trp Lys Ile Glu Asn Tyr Ile Asn Glu					
	580		585		590
Ser Thr Glu Ala Gln Ser Glu Gln Lys Glu Lys Ser Leu Glu Leu Lys					
	595		600		605
Lys Glu Val Pro Gly Tyr Gly Tyr Thr Asp Lys Leu Ile Leu Ala Leu					
	610		615		620
Ile Val Thr Gly Ile Leu Thr Ile Leu Ile Ile Leu Phe Cys Leu Ile					
625		630		635	640
Val Ile Cys Cys His Arg Arg Ser Leu Gln Glu Asp Glu Glu Gly Phe					
	645		650		655
Ser Arg Gly Ile Phe Arg Phe Leu Pro Arg Arg Gly Cys Ser Ser Arg					
	660		665		670
Arg Glu Ser Gln Asp Gly Leu Ser Ser Phe Gly Gln Pro Leu Trp Phe					
	675		680		685
Lys Asp Met Tyr Lys Pro Leu Ser Ala Thr Arg Ile Asn Asn His Ala					
	690		695		700
Trp Lys Leu His Lys Lys Ser Ser Asn Glu Asp Lys Ile Leu Asn Arg					
705		710		715	720

Asp Pro Gly Asp Ser Glu Ala Pro Thr Glu Glu Glu Glu Ser Glu Ala

725

730

735

Leu Pro

<210> 2352

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2352

Met Gln Val Ser Lys Arg Arg Pro Leu Ser Phe Leu Arg Glu Pro Leu

1

5

10

15

Ser Gly Pro Gly Pro Arg Gly Arg Lys His Ala Phe His Phe Arg Val

20

25

30

Phe Ser Leu Arg His Ser Gln Pro Arg Arg Gln Ala Ala Gly Phe Trp

35

40

45

Arg Lys Asp Ser Leu Pro Cys Pro Ser Pro Pro Leu Ala Leu Pro Ala

50

55

60

Arg Met Arg Ala Ala Ser Glu Lys Leu Gly Ile Ser Ser Gln Lys His

65

70

75

80

Gly Lys Asp Leu Val Ala Leu Asp Arg Asn Thr Asn Tyr Glu Gly Asn

85

90

95

Glu Ser Ser Ser Gly Arg Arg Arg

100

<210> 2353

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2353

Met Cys Arg Gly Leu Val Asn Val Thr Ile Thr Ile Tyr Ser Asp Gly

1 5 10 15

Ser Thr Arg Gly Pro Arg Leu Asp Gly Ser Pro Asp Ser Trp Asp Trp

20 25 30

Pro Val His Arg Ser Arg Leu Pro Gly Pro Arg Val Leu Ala Ser Lys

35 40 45

Ala Asn Leu Val Pro Ser Ala Thr Thr Ala Pro Ser Arg Pro Gln Arg

50 55 60

Gln Leu Arg Glu Gly Gly Val Arg Thr His Val Gln Glu Asp Phe Lys

65 70 75 80

Val Ala Val Tyr Glu Arg Asp Pro Asp Glu His Val Ala Pro Pro Glu

85 90 95

Val Pro Gln Leu Arg Arg Lys Gly Gly Gln Arg Ala Val Lys Pro Ala

100 105 110

Leu Pro His Ala Pro Cys Trp Pro Gly

115 120

<210> 2354

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2354

Met Leu Pro Lys Pro Gly Ala Gly Pro Gly Pro Gly Arg Gly Arg Val
 1 5 10 15
 Val Gly Asp Arg Glu Arg Arg Gly Arg Gly Glu Pro Val Gly Glu Gly
 20 25 30
 Arg Phe Arg Thr Pro Leu Pro Pro Thr Gln Gln Ala Gly Pro Gly Arg
 35 40 45
 Glu Ala Pro Arg Pro Ala Ser Ala Arg Asp Ser Pro Phe Ala Asn Ala
 50 55 60
 Arg Pro Cys Trp Pro Pro Gly Ser Pro Gly Pro Pro Ala Arg Ile Ser
 65 70 75 80
 Pro Thr Ala Gly Pro Gln Pro Arg Ser Arg Cys Pro Gly Ala Trp Gly
 85 90 95
 Pro Arg Gly Val Thr Thr Phe Ile His Ser Leu Pro His Ser Phe Ile
 100 105 110
 His Ser Leu Pro Tyr Ser Val Ile Pro Ser Leu Thr His
 115 120 125

<210> 2355

<211> 741

<212> PRT

<213> Homo sapiens

<400> 2355

Met Asn Lys Arg Ile Ile Glu Glu Ile Cys Arg Lys Val Thr Pro Pro
 1 5 10 15
 Val Pro Pro Lys Lys Val Thr Ala Ala Glu Lys Lys Thr Leu Asp Lys
 20 25 30
 Glu Glu Arg Arg Gln Lys Ala Arg Glu Arg Gln Gln Lys Leu Leu Ala

35	40	45
Glu Phe Ala Ser Arg Gln Lys Ser Phe Met Glu Thr Ala Met Asp Val		
50	55	60
Asp Ser Pro Glu Asn Asp Ile Pro Met Glu Ile Thr Thr Ala Glu Pro		
65	70	75
Gln Val Ser Glu Ala Val Tyr Asp Cys Val Ile Cys Gly Gln Ser Gly		
85	90	95
Pro Ser Ser Glu Asp Arg Pro Thr Gly Leu Val Val Leu Leu Gln Ala		
100	105	110
Ser Ser Val Leu Gly Gln Cys Arg Asp Asn Val Glu Pro Lys Lys Leu		
115	120	125
Pro Ile Ser Glu Glu Glu Gln Ile Tyr Pro Trp Asp Thr Cys Ala Ala		
130	135	140
Val His Asp Val Arg Leu Ser Leu Leu Gln Arg Tyr Phe Lys Asp Ser		
145	150	155
Ser Cys Leu Leu Ala Val Ser Ile Gly Trp Glu Gly Gly Val Tyr Val		
165	170	175
Gln Thr Cys Gly His Thr Leu His Ile Asp Cys His Lys Ser Tyr Met		
180	185	190
Glu Ser Leu Arg Asn Asp Gln Val Leu Gln Gly Phe Ser Val Asp Lys		
195	200	205
Gly Glu Phe Thr Cys Pro Leu Cys Arg Gln Phe Ala Asn Ser Val Leu		
210	215	220
Pro Cys Tyr Pro Gly Ser Asn Val Glu Asn Asn Pro Trp Gln Arg Pro		
225	230	235
Ser Asn Lys Ser Ile Gln Asp Leu Ile Lys Glu Val Glu Glu Leu Gln		
245	250	255
Gly Arg Pro Gly Ala Phe Pro Ser Glu Thr Asn Leu Ser Lys Glu Met		
260	265	270

Glu Ser Val Met Lys Asp Ile Lys Asn Thr Thr Gln Lys Lys Tyr Arg			
275	280	285	
Asp Tyr Ser Lys Thr Pro Gly Ser Pro Asp Asn Asp Phe Leu Phe Met			
290	295	300	
Tyr Ser Val Ala Arg Thr Asn Leu Glu Leu Glu Leu Ile His Arg Gly			
305	310	315	320
Gly Asn Leu Cys Ser Gly Gly Ala Ser Thr Ala Gly Lys Arg Ser Cys			
325	330	335	
Leu Asn Gln Leu Phe His Val Leu Ala Leu His Met Arg Leu Tyr Ser			
340	345	350	
Ile Asp Ser Glu Tyr Asn Pro Trp Arg Lys Leu Thr Gln Leu Glu Glu			
355	360	365	
Met Asn Pro Gln Leu Gly Tyr Glu Glu Gln Gln Pro Glu Val Pro Ile			
370	375	380	
Leu Tyr His Asp Val Thr Ser Leu Leu Leu Ile Gln Ile Leu Met Met			
385	390	395	400
Pro Gln Pro Leu Arg Lys Asp His Phe Thr Cys Ile Val Lys Val Leu			
405	410	415	
Phe Thr Leu Leu Tyr Thr Gln Ala Leu Ala Ala Leu Ser Val Lys Cys			
420	425	430	
Ser Glu Glu Asp Arg Ser Ala Trp Lys His Ala Gly Ala Leu Lys Lys			
435	440	445	
Ser Thr Cys Asp Ala Glu Lys Ser Tyr Glu Val Leu Leu Ser Phe Val			
450	455	460	
Ile Ser Glu Leu Phe Lys Gly Lys Leu Tyr His Glu Glu Gly Thr Gln			
465	470	475	480
Glu Cys Ala Met Val Asn Pro Ile Ala Trp Ser Pro Glu Ser Met Glu			
485	490	495	
Lys Cys Leu Gln Asp Phe Cys Leu Pro Phe Leu Arg Ile Thr Ser Leu			

500	505	510
Leu Gln His His Leu Phe Gly Glu Asp Leu Pro Ser Cys Gln Glu Glu		
515	520	525
Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly Leu Leu Pro Thr Phe		
530	535	540
Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser Cys Leu Asp Trp Pro		
545	550	555
Val Pro Ala Phe Asp Ile Ile Thr Gln Trp Cys Phe Glu Ile Lys Ser		
565	570	575
Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala Leu Leu Ile Gln Glu		
580	585	590
Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu Pro Glu Asn Tyr Asn		
595	600	605
Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys Ser Val Cys Thr Lys		
610	615	620
Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys Gly Thr Phe Val Cys		
625	630	635
Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr Cys Glu Cys Val Leu		
645	650	655
His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile Phe Leu Leu Ile Asn		
660	665	670
Ala Ser Val Ile Ile Ile Ile Arg Gly His Arg Phe Cys Leu Trp Gly		
675	680	685
Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp Arg Asp Leu Arg Arg		
690	695	700
Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr Lys Val Leu Glu Gln		
705	710	715
Gln Trp Ile Ser His Thr Phe Asp His Ile Asn Lys Arg Trp Gly Pro		
725	730	735

His Tyr Asn Gly Leu

740

<210> 2356

<211> 118

<212> PRT

<213> Homo sapiens

<400> 2356

Met Arg Gly Glu Arg Arg Pro Leu Trp Glu Glu Glu Ser Asn Ala Lys

1 5 10 15

Gly Gly Val Trp Lys Met Lys Val Pro Lys Asp Ser Thr Ser Thr Val

20 25 30

Trp Lys Glu Leu Leu Leu Ala Thr Ile Gly Glu Gln Phe Thr Asp Cys

35 40 45

Ala Ala Ala Asp Asp Glu Val Ile Gly Val Ser Val Ser Val Arg Asp

50 55 60

Arg Glu Asp Val Val Gln Val Trp Asn Val Asn Ala Ser Leu Val Gly

65 70 75 80

Glu Ala Thr Val Leu Glu Lys Ile Tyr Glu Leu Leu Pro His Ile Thr

85 90 95

Phe Lys Ala Val Phe Tyr Lys Pro His Glu Glu His His Ala Phe Glu

100 105 110

Gly Gly Arg Gly Lys His

115

<210> 2357

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2357

Met Ala Leu Glu His Leu Val Val Trp Arg Val His Ser Glu Asp Gln

1 5 10 15

Ser Phe Val Val Leu Lys Thr Asp Leu Gly Arg Arg Gly Cys Arg Pro

20 25 30

Leu Arg Lys Thr Ala Pro Lys Ala Lys Glu Ala Pro Ala Pro Pro Lys

35 40 45

Ala Glu Ala Lys Val Lys Ala Leu Lys Ala Lys Lys Ala Val Leu Lys

50 55 60

Gly Val Arg Ser His Thr Gln Lys Arg Arg Ser Ala Cys His Ser Pro

65 70 75 80

Ser Gly Gly Pro Arg His Cys Gly Ser Gly Gly Ser Pro Asp Ile Leu

85 90 95

Gly Arg Ala Pro Pro Gly Glu Thr Ser Leu Ala Thr Met Leu Ser Ser

100 105 110

Phe Arg

<210> 2358

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2358

Met Lys Thr Gly Lys Gly Pro Ala Thr Cys Val Arg Ala Cys Ser Phe
 1 5 10 15
 Cys His Gln Val Asp Ala His Gly Asn Ile Leu Leu Ser Thr Leu Glu
 20 25 30
 Ile Arg Asn Glu Thr Ser Gly Ser Glu Val Leu Thr Ser Val Ser Asp
 35 40 45
 Pro Lys Ala Thr Met Tyr Ser Tyr Asp Ser Ala Ser Ile Gln Tyr Arg
 50 55 60
 Lys Pro Leu Ser Ser Arg Glu Ala Tyr Gly Arg Ala Leu Asp Arg His
 65 70 75 80
 Gly Val Pro Ser Lys Gly Arg Ile Arg Arg Arg Ala Ser Gln Leu Lys
 85 90 95
 Val Lys Ile Pro Asp Leu Thr Asp Val Asn Ser Ile Asp Lys Trp Ser
 100 105 110
 Arg Met Phe Phe Pro Ile Thr Phe Ser Leu Phe Asn Val Val Tyr Trp
 115 120 125
 Leu Tyr Tyr Val His
 130

<210> 2359

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2359

Met Gly His Lys Glu Cys Gly Arg Ile Trp Gly Lys Pro Gln Gly Cys
 1 5 10 15
 Ala Phe Pro Glu Ala Glu Val Val Met Leu Leu Val Val Arg Asn Cys

	20		25		30
Gln Phe Arg Glu Glu Gln Asp Asp Gly Arg Ser Pro Trp Ile Pro Arg					
35		40		45	
Pro Arg Trp Ser Pro Lys Ser Tyr Pro Leu Pro Pro Ser Pro Gln Gly					
50		55		60	
Ile Val Gln Gly Phe Leu Leu Trp Pro Arg Gly Pro Arg Cys Phe Leu					
65		70		75	80
Arg Leu Pro Arg Pro Ser Ser Ser Arg Leu Tyr Asn Gly Gly Pro Asp					
	85		90		95
Leu Gly Ala Phe Leu Gly Ser Ser Cys Ile Arg Val Phe Gly Ser					
100		105		110	

<210> 2360

<211> 349

<212> PRT

<213> Homo sapiens

<400> 2360

Met Arg Leu Met Leu Arg Leu Gly Ala Glu Tyr Lys Ala Tyr Pro Ala				
1	5	10	15	
Pro Leu Thr Ser Ile Arg Gly Arg Lys Pro Leu Phe Gly Glu Ile Gly				
20	25	30		
His Thr Ile Met Asn Leu Leu Val Asp Leu Arg Asn Tyr Gln Tyr Thr				
35	40	45		
Leu His Asn Ile Asp Gln Leu Leu Ile His Met Glu Met Gly Lys Ser				
50	55	60		
Cys Ile Lys Ile Pro Arg Lys Lys Tyr Ser Asp Val Met Lys Val Leu				
65	70	75	80	

Asn Ser Ser Asn Glu His Val Ile Ser Ile Gly Ala Ser Phe Ser Thr			
	85	90	95
Glu Ala Asp Ser His Leu Val Cys Ile Gln Asn Asp Gly Ile Tyr Glu			
	100	105	110
Thr Gln Ala Asn Ser Ala Thr Gly His Pro Arg Lys Val Thr Gly Ala			
	115	120	125
Ser Phe Val Val Phe Asn Gly Ala Leu Lys Thr Ser Ser Gly Phe Leu			
	130	135	140
Ala Lys Ser Ser Ile Val Glu Asp Gly Leu Met Val Gln Ile Thr Pro			
	145	150	155
Glu Thr Met Asn Gly Leu Arg Leu Ala Leu Arg Glu Gln Lys Asp Phe			
	165	170	175
Lys Ile Thr Cys Gly Lys Val Asp Ala Val Asp Leu Arg Glu Tyr Val			
	180	185	190
Asp Ile Cys Trp Val Asp Ala Glu Glu Lys Gly Asn Lys Gly Val Ile			
	195	200	205
Ser Ser Val Asp Gly Ile Ser Leu Gln Gly Phe Pro Ser Glu Lys Ile			
	210	215	220
Lys Leu Glu Ala Asp Phe Glu Thr Asp Glu Lys Ile Val Lys Cys Thr			
	225	230	235
Glu Val Phe Tyr Phe Leu Lys Asp Gln Asp Leu Ser Ile Leu Ser Thr			
	245	250	255
Ser Tyr Gln Phe Ala Lys Glu Ile Ala Met Ala Cys Ser Ala Ala Leu			
	260	265	270
Cys Pro His Leu Lys Thr Leu Lys Ser Asn Gly Met Asn Lys Ile Gly			
	275	280	285
Leu Arg Val Ser Ile Asp Thr Asp Met Val Glu Phe Gln Ala Gly Ser			
	290	295	300
Glu Gly Gln Leu Leu Pro Gln His Tyr Leu Asn Asp Leu Asp Ser Ala			

305 310 315 320
Leu Ile Pro Val Ile His Gly Gly Thr Ser Asn Ser Ser Leu Pro Leu
 325 330 335
Glu Ile Glu Leu Val Phe Phe Ile Ile Glu His Leu Phe
 340 345

<210> 2361

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2361

Met Ala Gly Val Pro Gly Glu Ala Ala Gly Gly Pro Ala Ser Met Ser
1 5 10 15
Arg Ala Gly Met Leu Gly Val Val Cys Thr Leu Leu Val Trp Ala Tyr
 20 25 30
Leu Ala Val Gly Lys Leu Val Val Arg Met Thr Phe Thr Glu Leu Cys
 35 40 45
Thr His His Pro Trp Ser Leu Arg Cys Glu Ser Phe Cys Arg Ser Arg
50 55 60
Val Thr Ala Cys Leu Pro Ala Pro Ala Pro Trp Leu Arg Pro Phe Leu
65 70 75 80
Cys Pro Met Leu Phe Ser Asp Arg Asn Pro Val Glu Cys His Leu Phe
 85 90 95
Gly Glu Ala Val Ser Asp Pro Val Cys Lys Gly Leu Leu Pro His Tyr
100 105 110
Phe Trp His Pro Thr Phe Phe Pro Val Lys Ala Asn Cys Leu Val Ser
115 120 125

Phe Cys Pro Thr Thr Val

130

<210> 2362

<211> 223

<212> PRT

<213> Homo sapiens

<400> 2362

Met Arg Ala Ile Leu Lys Met Gly Gln Leu Cys Gly Asp His Pro Leu

1 5 10 15

Gly Ala Val Thr Phe Arg Cys Val Ala Leu Val Ala Val Trp Leu Cys

20 25 30

Gly Thr Ala Thr Arg Ser His Val Gly Lys Asp Ser Cys Gly Leu Gly

35 40 45

Thr Glu Leu Ser Leu Leu Gly Val Ser Arg Cys Trp Gly Glu Gly Arg

50 55 60

Gln Ser Ser Gln Ser Pro Ser Thr Ala His Pro Ala Ala Arg Pro Trp

65 70 75 80

Pro Val Asn Pro Pro Ser Pro Phe Leu Pro Gln Glu Ala Val Glu Lys

85 90 95

Val Thr Gln His Ile His Gly Leu Ser Gly Lys Lys Asp Gly Leu Val

100 105 110

Pro Met Phe Ile Asn Thr His Ser Gly Leu Phe Thr His Leu Gly Val

115 120 125

Phe Thr Leu Gly Ala Arg Ala Asp Ser Tyr Tyr Glu Tyr Leu Leu Lys

130 135 140

Gln Trp Ile Gln Gly Gly Lys Gln Glu Thr Gln Leu Leu Glu Asp Tyr

145 150 155 160
Val Glu Ala Ile Glu Gly Val Arg Thr His Leu Leu Arg His Ser Glu
 165 170 175
Pro Ser Lys Leu Thr Phe Val Gly Glu Leu Ala His Gly Arg Phe Ser
 180 185 190
Ala Lys Met Gly Arg Trp Leu Trp Ala Ser Thr Thr Ala Cys Pro Pro
 195 200 205
Ala Thr Trp Ser Trp Pro Arg Ser Ser Trp Arg Leu Val Thr Arg
 210 215 220

<210> 2363

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2363

Met Ser Arg Gln Gly Thr Gly Ser Ser Ala Gln Gly Leu Pro Val Leu
1 5 10 15
Leu Gly Cys Leu Pro Thr Ala Asp Ser Val Pro Leu Asp Cys Leu Leu
 20 25 30
Gln Lys Phe Leu Leu Leu Met Ala Ser Thr Ser Ala Cys Tyr Lys Leu
 35 40 45
Phe Arg Glu Lys Gln Lys Asp Gly His Gly Glu Ala Ile Met Phe Lys
 50 55 60
Gly Leu Gly Gly Met Ser Ser Lys Arg Ile Thr Ile Asn Lys Ile Leu
65 70 75 80
Ser Asn Glu Ser Leu Val Gln Glu Asn Leu Tyr Phe Gln Arg Cys Leu
 85 90 95

Asp Trp Asn Arg Asp Ile Leu Lys Lys Glu Leu Gly Leu Thr Glu Gln
 100 105 110
 Asp Ile Ile Asp Leu Pro Ala Leu Phe Lys Met Asp Glu Asp His Arg
 115 120 125
 Ala Arg Ala Phe Phe Pro Asn Met Val Asn Met Ile Val Leu Asp Lys
 130 135 140
 Asp Leu Gly Ile Pro Lys Pro Phe Gly Pro Gln Val Glu Glu Glu Cys
 145 150 155 160
 Cys Leu Glu Met His Val Arg Gly Leu Leu Glu Pro Leu Gly Leu Glu
 165 170 175
 Cys Thr Phe Ile Asp Asp Ile Ser Ala Tyr His Lys Phe Leu Gly Glu
 180 185 190
 Val His Cys Gly Thr Asn Val Arg Arg Lys Pro Phe Thr Phe Lys Trp
 195 200 205
 Trp His Met Val Pro
 210

<210> 2364

<211> 960

<212> PRT

<213> Homo sapiens

<400> 2364

Met Leu Ala Glu Ala Gln Trp Arg Pro Glu Glu Ser Glu Asp Tyr Glu
 1 5 10 15
 Thr Thr Ile Ser Gly Leu Thr Pro Glu Thr Thr Tyr Ser Val Thr Val
 20 25 30
 Ala Ala Tyr Thr Thr Lys Gly Asp Gly Ala Arg Ser Lys Pro Lys Ile

35	40	45
Val Thr Thr Thr Gly Ala Val Phe Ala Lys Asn Phe Arg Val Ala Ala		
50	55	60
Ala Met Lys Thr Ser Val Leu Leu Ser Trp Glu Val Pro Asp Ser Tyr		
65	70	75
Lys Ser Ala Val Pro Phe Lys Ile Leu Tyr Asn Gly Gln Ser Val Glu		
85	90	95
Val Asp Gly His Ser Met Arg Lys Leu Ile Ala Asp Leu Gln Pro Asn		
100	105	110
Thr Glu Tyr Ser Phe Val Leu Met Asn Arg Gly Ser Ser Ala Gly Gly		
115	120	125
Leu Gln His Leu Val Ser Ile Arg Thr Ala Pro Asp Leu Leu Pro His		
130	135	140
Lys Pro Leu Pro Ala Ser Ala Tyr Ile Glu Asp Gly Arg Phe Asp Leu		
145	150	155
Ser Met Pro His Val Gln Asp Pro Ser Leu Val Arg Trp Phe Tyr Ile		
165	170	175
Val Val Val Pro Ile Asp Arg Val Gly Gly Ser Met Leu Thr Pro Arg		
180	185	190
Trp Ser Thr Pro Glu Glu Leu Glu Leu Asp Glu Leu Leu Glu Ala Ile		
195	200	205
Glu Gln Gly Gly Glu Glu Gln Arg Arg Arg Arg Arg Gln Ala Glu Arg		
210	215	220
Leu Lys Pro Tyr Val Ala Ala Gln Leu Asp Val Leu Pro Glu Thr Phe		
225	230	235
Thr Leu Gly Asp Lys Lys Asn Tyr Arg Gly Phe Tyr Asn Arg Pro Leu		
245	250	255
Ser Pro Asp Leu Ser Tyr Gln Cys Phe Val Leu Ala Ser Leu Lys Glu		
260	265	270

Pro Met Asp Gln Lys Arg Tyr Ala Ser Ser Pro Tyr Ser Asp Glu Ile
275 280 285

Val Val Gln Val Thr Pro Ala Gln Gln Gln Glu Glu Pro Glu Met Leu
290 295 300

Trp Val Thr Gly Pro Val Leu Ala Val Ile Leu Ile Ile Leu Ile Val
305 310 315 320

Ile Ala Ile Leu Leu Phe Lys Arg Lys Arg Thr His Ser Pro Ser Ser
325 330 335

Lys Asp Glu Gln Ser Ile Gly Leu Lys Asp Ser Leu Leu Ala His Ser
340 345 350

Ser Asp Pro Val Glu Met Arg Arg Leu Asn Tyr Gln Thr Pro Gly Ser
355 360 365

Ser Val Pro Ser Cys Pro Asn Thr Ser Ser Met Arg Asp His Pro Pro
370 375 380

Ile Pro Ile Thr Asp Leu Ala Asp Asn Ile Glu Arg Leu Lys Ala Asn
385 390 395 400

Asp Gly Leu Lys Phe Ser Gln Glu Tyr Glu Ser Ile Asp Pro Gly Gln
405 410 415

Gln Phe Thr Trp Glu Asn Ser Asn Leu Glu Val Asn Lys Pro Lys Asn
420 425 430

Arg Tyr Ala Asn Val Ile Ala Tyr Asp His Ser Arg Val Ile Leu Thr
435 440 445

Ser Ile Asp Gly Val Pro Gly Ser Asp Tyr Ile Asn Ala Asn Tyr Ile
450 455 460

Asp Gly Tyr Arg Lys Gln Asn Ala Tyr Ile Ala Thr Gln Gly Pro Leu
465 470 475 480

Pro Glu Thr Met Gly Asp Phe Trp Arg Met Val Trp Glu Gln Arg Thr
485 490 495

Ala Thr Val Val Met Met Thr Arg Leu Glu Glu Lys Ser Arg Val Lys

500	505	510
Cys Asp Gln Tyr Trp Pro Ala Arg Gly Thr Glu Thr Cys Gly Leu Ile		
515	520	525
Gln Val Thr Leu Leu Asp Thr Val Glu Leu Ala Thr Tyr Thr Val Arg		
530	535	540
Thr Phe Ala Leu His Lys Ser Gly Ser Ser Glu Lys Arg Glu Leu Arg		
545	550	555
Gln Phe Gln Phe Met Ala Trp Pro Asp His Gly Val Pro Glu Tyr Pro		
565	570	575
Thr Pro Ile Leu Ala Phe Leu Arg Arg Val Lys Ala Cys Asn Pro Leu		
580	585	590
Asp Ala Gly Pro Met Val Val His Cys Ser Ala Gly Val Gly Arg Thr		
595	600	605
Gly Cys Phe Ile Val Ile Asp Ala Met Leu Glu Arg Met Lys His Glu		
610	615	620
Lys Thr Val Asp Ile Tyr Gly His Val Thr Cys Met Arg Ser Gln Arg		
625	630	635
Asn Tyr Met Val Gln Thr Glu Asp Gln Tyr Val Phe Ile His Glu Ala		
645	650	655
Leu Leu Glu Ala Ala Thr Cys Gly His Thr Glu Val Pro Ala Arg Asn		
660	665	670
Leu Tyr Ala His Ile Gln Lys Leu Gly Gln Val Pro Pro Gly Glu Ser		
675	680	685
Val Thr Ala Met Glu Leu Glu Phe Lys Leu Leu Ala Ser Ser Lys Ala		
690	695	700
His Thr Ser Arg Phe Ile Arg Ala Asn Leu Pro Cys Asn Lys Phe Lys		
705	710	715
Asn Arg Leu Val Asn Ile Met Pro Tyr Glu Leu Thr Arg Val Cys Leu		
725	730	735

Gln Pro Ile Arg Gly Val Glu Gly Ser Asp Tyr Ile Asn Ala Ser Phe
740 745 750
Leu Asp Gly Tyr Arg Gln Gln Lys Ala Tyr Ile Ala Thr Gln Gly Pro
755 760 765
Leu Ala Glu Ser Thr Glu Asp Phe Trp Arg Met Leu Trp Glu His Asn
770 775 780
Ser Thr Ile Ile Val Met Leu Thr Lys Leu Arg Glu Met Gly Arg Glu
785 790 795 800
Lys Cys His Gln Tyr Trp Pro Ala Glu Arg Ser Ala Arg Tyr Gln Tyr
805 810 815
Phe Val Val Asp Pro Met Ala Glu Tyr Asn Met Pro Gln Tyr Ile Leu
820 825 830
Arg Glu Phe Lys Val Thr Asp Ala Arg Asp Gly Gln Ser Arg Thr Ile
835 840 845
Arg Gln Phe Gln Phe Thr Asp Trp Pro Glu Gln Gly Val Pro Lys Thr
850 855 860
Gly Glu Gly Phe Ile Asp Phe Ile Gly Gln Val His Lys Thr Lys Glu
865 870 875 880
Gln Phe Gly Gln Asp Gly Pro Ile Thr Val His Cys Ser Ala Gly Val
885 890 895
Gly Arg Thr Gly Val Phe Ile Thr Leu Ser Ile Val Leu Glu Arg Met
900 905 910
Arg Tyr Glu Gly Val Val Asp Met Phe Gln Thr Val Lys Thr Leu Arg
915 920 925
Thr Gln Arg Pro Ala Met Val Gln Thr Glu Asp Gln Tyr Gln Leu Cys
930 935 940
Tyr Arg Ala Ala Leu Glu Tyr Leu Gly Ser Phe Asp His Tyr Ala Thr
945 950 955 960

<210> 2365

<211> 342

<212> PRT

<213> Homo sapiens

<400> 2365

Met Thr Arg Ala Pro Ser Glu Ile Asp Pro Arg Glu Asn Pro Asp Leu

1 5 10 15

Ala Cys Leu Gln Ser Ile Ile Phe Asp Glu Glu Arg Ser Pro Glu Glu

20 25 30

Gln Ala Lys Thr Tyr Lys Asp Glu Gly Asn Asp Tyr Phe Lys Glu Lys

35 40 45

Asp Tyr Lys Lys Ala Val Ile Ser Tyr Thr Glu Gly Leu Lys Lys Lys

50 55 60

Cys Ala Asp Pro Asp Leu Asn Ala Val Leu Tyr Thr Asn Arg Ala Ala

65 70 75 80

Ala Gln Tyr Tyr Leu Gly Asn Phe Arg Ser Ala Leu Asn Asp Val Thr

85 90 95

Ala Ala Arg Lys Leu Lys Pro Cys His Leu Lys Ala Ile Ile Arg Gly

100 105 110

Ala Leu Cys His Leu Glu Leu Lys His Phe Ala Glu Ala Val Asn Trp

115 120 125

Cys Asp Glu Gly Leu Gln Ile Asp Ala Lys Glu Lys Lys Leu Leu Glu

130 135 140

Met Arg Ala Lys Ala Asp Lys Leu Lys Arg Ile Glu Gln Arg Asp Val

145 150 155 160

Arg Lys Ala Asn Leu Lys Glu Lys Lys Glu Arg Asn Gln Asn Glu Ala

165 170 175

Leu Leu Gln Ala Ile Lys Ala Arg Asn Ile Arg Leu Ser Glu Ala Ala
180 185 190
Cys Glu Asp Glu Asp Ser Ala Ser Glu Gly Leu Gly Glu Leu Phe Leu
195 200 205
Asp Gly Leu Ser Thr Glu Asn Pro His Gly Ala Arg Leu Ser Leu Asp
210 215 220
Gly Gln Gly Arg Leu Ser Trp Pro Val Leu Phe Leu Tyr Pro Glu Tyr
225 230 235 240
Ala Gln Ser Asp Phe Ile Ser Ala Phe His Glu Asp Ser Arg Phe Ile
245 250 255
Asp His Leu Met Val Met Phe Gly Glu Thr Pro Ser Trp Asp Leu Glu
260 265 270
Gln Lys Tyr Cys Pro Asp Asn Leu Glu Val Tyr Phe Glu Asp Glu Asp
275 280 285
Arg Ala Glu Leu Tyr Arg Val Pro Ala Lys Ser Thr Leu Leu Gln Val
290 295 300
Leu Gln His Gln Arg Tyr Phe Val Lys Ala Leu Thr Pro Ala Phe Leu
305 310 315 320
Val Cys Val Gly Ser Ser Pro Phe Cys Lys Asn Phe Leu Arg Gly Arg
325 330 335
Lys Val Tyr Gln Ile Arg
340

<210> 2366

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2366

Met His Val Cys Thr Gly Ala Ser Lys Pro Leu Val Ser Thr Pro Phe

1 5 10 15

His Pro Thr Pro Thr Ser Leu Ile Ser Ala Pro Ser Leu Gly Cys Ala

20 25 30

Pro Leu Leu Ser Ala Arg Gly Cys Leu His Val Gly Val Cys Met Trp

35 40 45

Val Ser Val Pro Ser Ser Val Ser Cys Leu His Val Gly Val Cys Thr

50 55 60

Leu Thr Cys Leu Val Ser Ala Gln Ala Cys Val Gly Val Pro Ala Gly

65 70 75 80

Leu Phe Gly Gly Arg Pro Val Ile Leu Glu Val Thr His Val Phe Cys

85 90 95

Gly Cys Leu Leu Leu Ala Pro His Ser Val Glu Met Gly Leu His Trp

100 105 110

Pro Arg Leu Ser Pro Ala His Pro Pro Pro Ser Leu Pro Ala Ser Lys

115 120 125

Pro Arg Asn Ser Gly Phe Arg Gly Pro Ser Gln Val Ser Thr Trp Gln

130 135 140

Gln Cys Leu Gln Thr Pro Gly Trp Pro Ile Cys Pro Pro Ala Pro Leu

145 150 155 160

Ser Asp Leu Ser Leu Pro Gly Cys Pro Cys Leu His Pro Ser Ser Pro

165 170 175

Ser His Cys Arg Cys Leu Pro Thr Ser His Pro Trp Val Pro Ser Gln

180 185 190

Pro Leu Trp Pro Pro Gln Leu Gly Pro Leu Ser Ser Arg Leu Pro His

195 200 205

Pro Val Leu Leu Pro Pro Ser

210 215

<210> 2367

<211> 334

<212> PRT

<213> Homo sapiens

<400> 2367

Met His Arg Glu Leu Val Phe Arg Phe Ile Glu Val Gln Thr Leu Leu
1 5 10 15
Leu Ala Pro Phe Cys Pro His Leu Cys Glu His Ile Trp Thr Leu Leu
20 25 30
Gly Lys Pro Asp Ser Ile Met Asn Ala Ser Trp Pro Val Ala Gly Pro
35 40 45
Val Asn Glu Val Leu Ile His Ser Ser Gln Tyr Leu Met Glu Val Thr
50 55 60
His Asp Leu Arg Leu Arg Leu Lys Asn Tyr Met Met Pro Ala Lys Gly
65 70 75 80
Lys Lys Thr Asp Lys Gln Pro Leu Gln Lys Pro Ser His Cys Thr Ile
85 90 95
Tyr Val Ala Lys Asn Tyr Pro Pro Trp Gln His Thr Thr Leu Ser Val
100 105 110
Leu Arg Lys His Phe Glu Ala Asn Asn Gly Lys Leu Pro Asp Asn Lys
115 120 125
Val Ile Ala Ser Glu Leu Gly Ser Met Pro Glu Leu Lys Lys Tyr Met
130 135 140
Lys Lys Val Met Pro Phe Val Ala Met Ile Lys Glu Asn Leu Glu Lys
145 150 155 160
Met Gly Pro Arg Ile Leu Asp Leu Gln Leu Glu Phe Asp Glu Lys Ala

165	170	175
Val Leu Met Glu Asn Ile Val Tyr Leu Thr Asn Ser Leu Glu Leu Glu		
180	185	190
His Ile Glu Val Lys Phe Ala Ser Glu Ala Glu Asp Lys Ile Arg Glu		
195	200	205
Asp Cys Cys Pro Gly Lys Pro Leu Asn Val Phe Arg Ile Glu Pro Gly		
210	215	220
Val Ser Val Ser Leu Val Asn Pro Gln Pro Ser Asn Gly His Phe Ser		
225	230	235
Thr Lys Ile Glu Ile Arg Gln Gly Asp Asn Cys Asp Ser Ile Ile Arg		
245	250	255
Arg Leu Met Lys Met Asn Arg Gly Ile Lys Asp Leu Ser Lys Val Lys		
260	265	270
Leu Met Arg Phe Asp Asp Pro Leu Leu Gly Pro Arg Arg Val Pro Val		
275	280	285
Leu Gly Lys Glu Tyr Thr Glu Lys Thr Pro Ile Ser Glu His Ala Val		
290	295	300
Phe Asn Val Asp Leu Met Ser Lys Lys Ile His Leu Thr Glu Asn Gly		
305	310	315
Ile Arg Val Asp Ile Gly Asp Thr Ile Ile Tyr Leu Val His		
325	330	

<210> 2368

<211> 238

<212> PRT

<213> Homo sapiens

<400> 2368

Met Met Gln Thr Phe Asn Gly Ala Pro Lys Asn Lys Asp Val Gln Cys
 1 5 10 15
 Asp Lys Ile Ile Met Glu Asp Lys Gly Ile Met Ser Thr Ala Trp Asp
 20 25 30
 Leu Tyr Asp Ser Tyr Asn Ala Met Glu Leu Val Ser Leu Ser Val Lys
 35 40 45
 Gln Ser Val Val Glu Ser Ser Ser Lys Ala Asn Val Leu Pro Lys Asp
 50 55 60
 Gln Asp Gln Arg Leu Pro Gly Ser Thr Thr Glu Lys Asn Ser Glu Thr
 65 70 75 80
 Ser Ser Leu Met Asp Ile Glu Asn Val Ile Leu Ala Lys Ile His Glu
 85 90 95
 Asp Glu Glu Asp His Ser Asp Ala Ile Leu Lys Ser Asp Lys Phe His
 100 105 110
 Gln Asp Leu Phe Phe Met Glu Arg Val Leu Met Glu Asn Ile Phe Gln
 115 120 125
 Pro Lys Leu Ala Ala Tyr Arg Gln Leu Pro Val Leu Lys Glu Pro Glu
 130 135 140
 Pro Glu Glu Pro Glu Asp Val Leu Glu Ser Ala Lys His Glu Glu Val
 145 150 155 160
 Glu Glu Glu Ser Lys Lys Glu Glu Glu Glu Glu Ile His Ala Glu Glu
 165 170 175
 Ser Thr Ile Pro Ala Asn Leu Glu Arg Leu Trp Ser Phe Ser Cys Asp
 180 185 190
 Leu Thr Lys Gly Leu Asn Val Ser Ser Leu Ala Trp Asn Lys Thr Asn
 195 200 205
 Pro Asp Leu Leu Ala Val Gly Tyr Gly His Phe Gly Phe Lys Glu Gln
 210 215 220
 Lys Arg Gly Leu Ala Cys Cys Trp Ser Ile Lys Asn Pro Met

225

230

235

<210> 2369

<211> 581

<212> PRT

<213> Homo sapiens

<400> 2369

Met Asp Ser Asp Asp Val Arg Gln Ala Ala Arg Leu Leu Leu Pro Gly

1

5

10

15

Val Asp Cys Glu Pro Arg Gln Leu Arg Ala Asp Asp Cys Phe Cys Ala

20

25

30

Ser Arg Lys Leu Asp Ala Val Ala Ile Glu Ala Lys Phe Lys Gln Asp

35

40

45

Leu Gly Phe Arg Met Leu Asn Cys Gly Arg Thr Asp Leu Val Lys Gln

50

55

60

Ala Val Ser Leu Leu Gly Pro Asp Gly Ile Asn Thr Met Ser Glu Gln

65

70

75

80

Gly Met Thr Pro Leu Met Tyr Ala Cys Val Arg Gly Asp Glu Ala Met

85

90

95

Val Gln Met Leu Leu Asp Ala Gly Ala Asp Leu Asn Val Glu Val Val

100

105

110

Ser Thr Pro His Lys Tyr Pro Ser Val His Pro Glu Thr Arg His Trp

115

120

125

Thr Ala Leu Thr Phe Ala Val Leu His Gly His Ile Pro Val Val Gln

130

135

140

Leu Leu Leu Asp Ala Gly Ala Lys Val Glu Gly Ser Val Glu His Gly

145

150

155

160

Glu Glu Asn Tyr Ser Glu Thr Pro Leu Gln Leu Ala Ala Ala Val Gly
 165 170 175
 Asn Phe Glu Leu Val Ser Leu Leu Leu Glu Arg Gly Ala Asp Pro Leu
 180 185 190
 Ile Gly Thr Met Tyr Arg Asn Gly Ile Ser Thr Thr Pro Gln Gly Asp
 195 200 205
 Met Asn Ser Phe Ser Gln Ala Ala Ala His Gly His Arg Asn Val Phe
 210 215 220
 Arg Lys Leu Leu Ala Gln Pro Glu Lys Glu Lys Ser Asp Ile Leu Ser
 225 230 235 240
 Leu Glu Glu Ile Leu Ala Glu Gly Thr Asp Leu Ala Glu Thr Ala Pro
 245 250 255
 Pro Pro Leu Cys Ala Ser Arg Asn Ser Lys Ala Lys Leu Arg Ala Leu
 260 265 270
 Arg Glu Ala Met Tyr His Ser Ala Glu His Gly Tyr Val Asp Val Thr
 275 280 285
 Ile Asp Ile Arg Ser Ile Gly Val Pro Trp Thr Leu His Thr Trp Leu
 290 295 300
 Glu Ser Leu Arg Ile Ala Phe Gln Gln His Arg Arg Pro Leu Ile Gln
 305 310 315 320
 Cys Leu Leu Lys Glu Phe Lys Thr Ile Gln Glu Glu Glu Tyr Thr Glu
 325 330 335
 Glu Leu Val Thr Gln Gly Leu Pro Leu Met Phe Glu Ile Leu Lys Ala
 340 345 350
 Ser Lys Asn Glu Val Ile Ser Gln Gln Leu Cys Val Ile Phe Thr His
 355 360 365
 Cys Tyr Gly Pro Tyr Pro Ile Pro Lys Leu Thr Glu Ile Lys Arg Lys
 370 375 380
 Gln Thr Ser Arg Leu Asp Pro His Phe Leu Asn Asn Lys Glu Met Ser

385 390 395 400
 Asp Val Thr Phe Leu Val Glu Gly Arg Pro Phe Tyr Ala His Lys Val
 405 410 415
 Leu Leu Phe Thr Ala Ser Pro Arg Phe Lys Ala Leu Leu Ser Ser Lys
 420 425 430
 Pro Thr Asn Asp Gly Thr Cys Ile Glu Ile Gly Tyr Val Lys Tyr Ser
 435 440 445
 Ile Phe Gln Leu Val Met Gln Tyr Leu Tyr Tyr Gly Gly Pro Glu Ser
 450 455 460
 Leu Leu Ile Lys Asn Asn Glu Ile Met Glu Leu Leu Ser Ala Ala Lys
 465 470 475 480
 Phe Phe Gln Leu Glu Ala Leu Gln Arg His Cys Glu Ile Ile Cys Ala
 485 490 495
 Lys Ser Ile Asn Thr Asp Asn Cys Val Asp Ile Tyr Asn His Ala Lys
 500 505 510
 Phe Leu Gly Val Thr Glu Leu Ser Ala Tyr Cys Glu Gly Tyr Phe Leu
 515 520 525
 Lys Asn Met Met Val Leu Ile Glu Asn Glu Ala Phe Lys Gln Leu Leu
 530 535 540
 Tyr Asp Lys Asn Gly Glu Gly Thr Gly Gln Asp Val Leu Gln Asp Leu
 545 550 555 560
 Gln Arg Thr Leu Ala Ile Arg Ile Gln Ser Ile His Leu Ser Ser Ser
 565 570 575
 Lys Gly Ser Val Val
 580

<210> 2370

<211> 333

<212> PRT

<213> Homo sapiens

<400> 2370

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Met Glu Thr Tyr Ile Thr Tyr Arg Ile Thr Thr Lys Ser Thr Arg Val
  1             5             10             15
Glu Phe Asp Leu Pro Glu Tyr Ser Val Arg Arg Arg Tyr Gln Asp Phe
      20             25             30
Asp Trp Leu Arg Ser Lys Leu Glu Glu Ser Gln Pro Thr His Leu Ile
      35             40             45
Pro Pro Leu Pro Glu Lys Phe Val Val Lys Gly Val Val Asp Arg Phe
      50             55             60
Ser Glu Glu Phe Val Glu Thr Arg Arg Lys Ala Leu Asp Lys Phe Leu
      65             70             75             80
Lys Arg Ile Thr Asp His Pro Val Leu Ser Phe Asn Glu His Phe Asn
      85             90             95
Ile Phe Leu Thr Ala Lys Asp Leu Asn Ala Tyr Lys Lys Gln Gly Ile
      100            105            110
Ala Leu Leu Thr Arg Met Gly Glu Ser Val Lys His Val Thr Gly Gly
      115            120            125
Tyr Lys Leu Arg Thr Arg Pro Leu Glu Phe Ala Ala Ile Gly Asp Tyr
      130            135            140
Leu Asp Thr Phe Ala Leu Lys Leu Gly Thr Ile Asp Arg Ile Ala Gln
      145            150            155            160
Arg Ile Ile Lys Glu Glu Ile Glu Tyr Leu Val Glu Leu Arg Glu Tyr
      165            170            175
Gly Pro Val Tyr Ser Thr Trp Ser Ala Leu Glu Gly Glu Leu Ala Glu
      180            185            190
Pro Leu Glu Gly Val Ser Ala Cys Ile Gly Asn Cys Ser Thr Ala Leu

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出証特 2 0 0 4 - 3 0 5 9 6 6 1

Gln Thr Leu Gln Ala Leu Arg Ser Ser Lys Glu Pro Leu Val Ile Gln
 35 40 45
 Val Leu Arg Arg Ser Pro Arg Leu Arg Gly Asp Ser Ser Cys His Asp
 50 55 60
 Leu Gln Leu Val Asp Ser Gly Thr Gln Thr Asp Ile Thr Phe Glu His
 65 70 75 80
 Ile Met Ala Leu Gly Lys Leu Arg Pro Pro Thr Pro Pro Met Val Ile
 85 90 95
 Leu Glu Pro Pro Pro Ile Ser His Glu Tyr Tyr Asp Pro Ala Glu Phe
 100 105 110
 Met Glu Gly Gly Pro Gln Glu Ala Asp Arg Leu Asp Glu Leu Glu Tyr
 115 120 125
 Glu Glu Val Glu Leu Tyr Lys Ser Ser His Arg Asp Lys Leu Gly Leu
 130 135 140
 Met Val Cys Tyr Arg Thr Asp Asp Glu Glu Asp Leu Gly Ile Tyr Val
 145 150 155 160
 Gly Glu Val Asn Pro Asn Ser Ile Ala Ala Lys Asp Gly Arg Ile Arg
 165 170 175
 Glu Gly Asp Arg Ile Ile Gln Ile Asn Gly Val Asp Val Gln Asn Arg
 180 185 190
 Glu Glu Ala Val Ala Ile Leu Ser Gln Glu Glu Asn Thr Asn Ile Ser
 195 200 205
 Leu Leu Val Ala Arg Pro Glu Ser Gln Leu Ala Lys Arg Trp Lys Asp
 210 215 220
 Ser Asp Arg Asp Asp Phe Leu Asp Asp Phe Gly Ser Glu Asn Glu Gly
 225 230 235 240
 Glu Leu Arg Ala Arg Lys Leu Lys Ser Pro Pro Ala Gln Gln Pro Gly
 245 250 255
 Asn Glu Glu Glu Lys Gly Ala Pro Asp Ala Gly Pro Gly Leu Ser Asn

260	265	270
Ser Gln Glu Leu Asp Ser Gly Val Gly Arg Thr Asp Glu Ser Thr Arg		
275	280	285
Asn Glu Glu Ser Ser Glu His Asp Leu Leu Gly Asp Glu Pro Pro Ser		
290	295	300
Ser Thr Asn Thr Pro Gly Ser Leu Arg Lys Phe Gly Leu Gln Gly Asp		
305	310	315
Ala Leu Gln Ser Arg Asp Phe His Phe Ser Met Asp Ser Leu Leu Ala		
325	330	335
Glu Gly Ala Gly Leu Gly Gly Gly Asp Val Pro Gly Leu Thr Asp Glu		
340	345	350
Glu Tyr Glu Arg Tyr Arg Glu Leu Leu Glu Ile Lys Cys His Leu Glu		
355	360	365
Asn Gly Asn Gln Leu Gly Leu Leu Phe Pro Arg Ala Ser Gly Gly Asn		
370	375	380
Ser Ala Leu Asp Val Asn Arg Asn Glu Ser Leu Gly His Glu Met Ala		
385	390	395
Met Leu Glu Glu Glu Leu Arg His Leu Glu Phe Lys Cys Arg Asn Ile		
405	410	415
Leu Arg Ala Gln Lys Met Gln Gln Leu Arg Glu Arg Cys Met Lys Ala		
420	425	430
Trp Leu Leu Glu Glu Glu Ser Leu Tyr Asp Leu Ala Ala Ser Glu Pro		
435	440	445
Lys Lys His Glu Leu Ser Asp Ile Ser Glu Leu Pro Glu Lys Ser Asp		
450	455	460
Lys Asp Ser Thr Ser Ala Tyr Asn Thr Gly Glu Ser Cys Arg Ser Thr		
465	470	475
Pro Leu Leu Val Glu Pro Leu Pro Glu Ser Pro Leu Arg Arg Ala Met		
485	490	495

Ala Gly Asn Ser Asn Leu Asn Arg Thr Pro Pro Gly Pro Ala Val Ala
500 505 510

Thr Pro Ala Lys Ala Ala Pro Pro Pro Gly Ser Pro Ala Lys Phe Arg
515 520 525

Ser Leu Ser Arg Asp Pro Glu Ala Gly Arg Arg Gln His Ala Glu Glu
530 535 540

Arg Gly Arg Arg Asn Pro Lys Thr Gly Leu Thr Leu Glu Arg Val Gly
545 550 555 560

Pro Glu Ser Ser Pro Tyr Leu Ser Arg Arg His Arg Gly Gln Gly Gln
565 570 575

Glu Gly Glu His Tyr His Ser Cys Val Gln Leu Ala Pro Thr Arg Gly
580 585 590

Leu Glu Glu Leu Gly His Gly Pro Leu Ser Leu Ala Gly Gly Pro Arg
595 600 605

Val Gly Gly Val Ala Ala Ala Ala Thr Glu Ala Pro Arg Met Glu Trp
610 615 620

Lys Val Lys Val Arg Ser Asp Gly Thr Arg Tyr Val Ala Lys Arg Pro
625 630 635 640

Val Arg Asp Arg Leu Leu Lys Ala Arg Ala Leu Lys Ile Arg Glu Glu
645 650 655

Arg Ser Gly Met Thr Thr Asp Asp Asp Ala Val Ser Glu Met Lys Met
660 665 670

Gly Arg Tyr Trp Ser Lys Glu Glu Arg Lys Gln His Leu Ile Arg Ala
675 680 685

Arg Glu Gln Arg Lys Arg Arg Glu Phe Met Met Gln Ser Arg Leu Glu
690 695 700

Cys Leu Arg Glu Gln Gln Asn Gly Asp Ser Lys Pro Glu Leu Asn Ile
705 710 715 720

Ile Ala Leu Ser His Arg Lys Thr Met Lys Lys Arg Asn Lys Lys Ile

	725		730		735										
Leu	Asp	Asn	Trp	Ile	Thr	Ile	Gln	Glu	Met	Leu	Ala	His	Gly	Ala	Arg
	740		745		750										
Ser	Ala	Asp	Gly	Lys	Arg	Val	Tyr	Asn	Pro	Leu	Leu	Ser	Val	Thr	Thr
	755		760		765										
Val															

<210> 2372

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2372

Met	Val	Val	Ile	Ile	Gln	Leu	Phe	Ile	Leu	Lys	Ser	Gly	Lys	Arg	His
1			5					10					15		
His	Leu	Leu	Lys	Asn	Asn	Gly	Leu	Cys	Cys	Phe	Cys	Gln	Leu	Asn	Leu
			20					25					30		
Pro	Asp	Glu	Phe	Ser	Leu	Ser	Ile	Phe	Ser	Ser	Tyr	Ile	Arg	His	Leu
			35					40					45		
Ser	Gly	His	Ile	His	Val	Val	Leu	Phe	Cys	Phe	Val	Leu	Arg	Gln	Gly
			50					55					60		
Leu	Pro	Leu	Leu	Pro	Arg	Leu	Glu	Cys	Ser	Gly	Met	Ile	Ile	Gly	His
			65					70					75		80
Cys	Ser	Leu	Glu	Leu	Leu	Gly	Ser	Ser	Asp	Ser	Pro	Ala	Leu	Ala	Ser
								85					90		95
Gln	Val	Ala	Arg	Ser	Thr	Gly	Thr	His	Pro	His	Ile	Trp	Leu	Ile	Phe
								100					105		110

Leu Phe Phe Val Glu Met Gly Leu Cys Arg Val Ala Gln Ala Gly Leu
 115 120 125

Lys Leu Leu Ala Ser Cys Asn Pro Pro Ile
 130 135

<210> 2373

<211> 335

<212> PRT

<213> Homo sapiens

<400> 2373

Met Leu Ala Leu Ala Ser His Leu Ser Thr Val Glu Ser Glu Lys Gln
 1 5 10 15

Lys Leu Arg Ala Gln Val Arg Arg Leu Cys Gln Glu Asn Gln Trp Leu
 20 25 30

Arg Asp Glu Leu Ala Gly Thr Gln Gln Arg Leu Gln Arg Ser Glu Gln
 35 40 45

Ala Val Ala Gln Leu Glu Glu Glu Lys Lys His Leu Glu Phe Leu Gly
 50 55 60

Gln Leu Arg Gln Tyr Asp Glu Asp Gly His Thr Ser Glu Glu Lys Glu
 65 70 75 80

Gly Asp Ala Thr Lys Asp Ser Leu Asp Asp Leu Phe Pro Asn Glu Glu
 85 90 95

Glu Glu Asp Pro Ser Asn Gly Leu Ser Arg Gly Gln Gly Ala Thr Ala
 100 105 110

Ala Gln Gln Gly Gly Tyr Glu Ile Pro Ala Arg Leu Arg Thr Leu His
 115 120 125

Asn Leu Val Ile Gln Tyr Ala Ala Gln Gly Arg Tyr Glu Val Ala Val

130	135	140	
Pro Leu Cys Lys Gln Ala Leu Glu Asp Leu Glu Arg Thr Ser Gly Arg			
145	150	155	160
Gly His Pro Asp Val Ala Thr Met Leu Asn Ile Leu Ala Leu Val Tyr			
165	170	175	
Arg Asp Gln Asn Lys Tyr Lys Glu Ala Ala His Leu Leu Asn Asp Ala			
180	185	190	
Leu Ser Ile Arg Glu Ser Thr Leu Gly Pro Asp His Pro Ala Val Ala			
195	200	205	
Ala Thr Leu Asn Asn Leu Ala Val Leu Tyr Gly Lys Arg Gly Lys Tyr			
210	215	220	
Lys Glu Ala Glu Pro Leu Cys Gln Arg Ala Leu Glu Ile Arg Glu Lys			
225	230	235	240
Val Leu Gly Thr Asn His Pro Asp Val Ala Lys Gln Leu Asn Asn Leu			
245	250	255	
Ala Leu Leu Cys Gln Asn Gln Gly Lys Tyr Glu Ala Val Glu Arg Tyr			
260	265	270	
Tyr Gln Arg Ala Leu Ala Ile Tyr Glu Gly Gln Leu Gly Pro Asp Asn			
275	280	285	
Pro Asn Val Ala Arg Thr Lys Asn Asn Leu Ala Ser Cys Tyr Leu Lys			
290	295	300	
Gln Gly Lys Tyr Ala Glu Ala Glu Thr Leu Tyr Lys Glu Ile Leu Thr			
305	310	315	320
Arg Ala His Val Gln Glu Phe Gly Ser Val Asp Glu Pro Ala Pro			
325	330	335	

<210> 2374

<211> 641

<212> PRT

<213> Homo sapiens

<400> 2374

Met Thr Phe Gln Val Trp Gly Trp Arg Arg Glu Asp Ala Ser Gln Val
 1 5 10 15

Leu Ala Trp Val Pro Asp Ala Glu Gly Gly Arg Arg Gly Met Leu Thr
 20 25 30

Arg Arg Ser Leu Ala Thr Lys Asp Pro Thr Ala Val Glu Arg Ala Asn
 35 40 45

Leu Leu Asn Met Ala Lys Leu Ser Ile Lys Gly Leu Ile Glu Ser Ala
 50 55 60

Leu Ser Phe Gly Arg Thr Leu Asp Ser Asp Tyr Pro Pro Leu Gln Gln
 65 70 75 80

Phe Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val Arg
 85 90 95

Lys Ser Phe Leu Ser Tyr Asn Lys Thr Ile Trp Gly Pro Leu Glu Leu
 100 105 110

Val Glu Lys Leu Tyr Pro Glu Ala Glu Glu Ile Gly Ala Ser Val Arg
 115 120 125

Asp Leu Pro Gly Leu Lys Thr Pro Leu Gly Arg Ala Arg Ala Trp Leu
 130 135 140

Arg Leu Ala Leu Met Gln Lys Lys Met Ala Asp Tyr Leu Arg Cys Leu
 145 150 155 160

Ile Ile Gln Arg Asp Leu Leu Ser Glu Phe Tyr Glu Tyr His Ala Leu
 165 170 175

Met Met Glu Glu Glu Gly Ala Val Ile Val Gly Leu Leu Val Gly Leu
 180 185 190

Asn Val Ile Asp Ala Asn Leu Cys Val Lys Gly Glu Asp Leu Asp Ser

195	200	205
Gln Val Gly Val Ile Asp Phe Ser Met Tyr Leu Lys Asn Glu Glu Asp		
210	215	220
Ile Gly Asn Lys Glu Arg Asn Val Gln Ile Ala Ala Ile Leu Asp Gln		
225	230	235
Lys Asn Tyr Val Glu Glu Leu Asn Arg Gln Leu Asn Ser Thr Val Ser		
245	250	255
Ser Leu His Ser Arg Val Asp Ser Leu Glu Lys Ser Asn Thr Lys Leu		
260	265	270
Ile Glu Glu Leu Ala Ile Ala Lys Asn Asn Ile Ile Lys Leu Gln Glu		
275	280	285
Glu Asn His Gln Leu Arg Ser Glu Asn Lys Leu Ile Leu Met Lys Thr		
290	295	300
Gln Gln His Leu Glu Val Thr Lys Val Asp Val Glu Thr Glu Leu Gln		
305	310	315
Thr Tyr Lys His Ser Arg Gln Gly Leu Asp Glu Met Tyr Asn Glu Ala		
325	330	335
Arg Arg Gln Leu Arg Asp Glu Ser Gln Leu Arg Gln Asp Val Glu Asn		
340	345	350
Glu Leu Ala Val Gln Val Ser Met Lys His Glu Ile Glu Leu Ala Met		
355	360	365
Lys Leu Leu Glu Lys Asp Ile His Glu Lys Gln Asp Thr Leu Ile Gly		
370	375	380
Leu Arg Gln Gln Leu Glu Glu Val Lys Ala Ile Asn Ile Glu Met Tyr		
385	390	395
Gln Lys Leu Gln Gly Ser Glu Asp Gly Leu Lys Glu Lys Asn Glu Ile		
405	410	415
Ile Ala Arg Leu Glu Glu Lys Thr Asn Lys Ile Thr Ala Ala Met Arg		
420	425	430

Gln Leu Glu Gln Arg Leu Gln Gln Ala Glu Lys Ala Gln Met Glu Ala
435 440 445
Glu Asp Glu Asp Glu Lys Tyr Leu Gln Glu Cys Leu Ser Lys Ser Asp
450 455 460
Ser Leu Gln Lys Gln Ile Ser Gln Lys Glu Lys Gln Leu Val Gln Leu
465 470 475 480
Glu Thr Asp Leu Lys Ile Glu Lys Glu Trp Arg Gln Thr Leu Gln Glu
485 490 495
Asp Leu Gln Lys Glu Lys Asp Ala Leu Ser His Leu Arg Asn Glu Thr
500 505 510
Gln Gln Ile Ile Ser Leu Lys Lys Glu Phe Leu Asn Leu Gln Asp Glu
515 520 525
Asn Gln Gln Leu Lys Lys Ile Tyr His Glu Gln Glu Gln Ala Leu Gln
530 535 540
Glu Leu Gly Asn Lys Leu Ser Glu Ser Lys Leu Lys Ile Glu Asp Ile
545 550 555 560
Lys Glu Ala Asn Lys Ala Leu Gln Gly Leu Val Trp Leu Lys Asp Lys
565 570 575
Glu Ala Thr His Cys Lys Leu Cys Glu Lys Glu Phe Ser Leu Ser Lys
580 585 590
Arg Lys His His Cys Arg Asn Cys Gly Glu Ile Phe Cys Asn Ala Cys
595 600 605
Ser Asp Asn Glu Leu Pro Leu Pro Ser Ser Pro Lys Pro Val Arg Val
610 615 620
Cys Asp Ser Cys His Ala Leu Leu Ile Gln Arg Cys Ser Ser Asn Leu
625 630 635 640
Pro

<210> 2375

<211> 1015

<212> PRT

<213> Homo sapiens

<400> 2375

Met Pro Glu Glu Glu Lys Leu Val Asn Tyr Tyr Ser Cys Ser Tyr Trp

1 5 10 15

Lys Gly Lys Val Pro Arg Gln Gly Trp Met Tyr Leu Ser Ile Asn His

20 25 30

Leu Cys Phe Tyr Ser Phe Leu Met Gly Arg Glu Ala Lys Leu Val Ile

35 40 45

Arg Trp Val Asp Ile Thr Gln Leu Glu Lys Asn Ala Thr Leu Leu Leu

50 55 60

Pro Asp Val Ile Lys Val Ser Thr Arg Ser Ser Glu His Phe Phe Ser

65 70 75 80

Val Phe Leu Asn Ile Asn Glu Thr Phe Lys Leu Met Glu Gln Leu Ala

85 90 95

Asn Ile Ala Met Arg Gln Leu Leu Asp Asn Glu Gly Phe Glu Gln Asp

100 105 110

Arg Ser Leu Pro Lys Leu Lys Arg Lys Ser Pro Lys Lys Val Ser Ala

115 120 125

Leu Lys Arg Asp Leu Asp Ala Arg Ala Lys Ser Glu Arg Tyr Arg Ala

130 135 140

Leu Phe Arg Leu Pro Lys Asp Glu Lys Leu Asp Gly His Thr Asp Cys

145 150 155 160

Thr Leu Trp Thr Pro Phe Asn Lys Met His Ile Leu Gly Gln Met Phe

165 170 175

Val Ser Thr Asn Tyr Ile Cys Phe Thr Ser Lys Glu Glu Asn Leu Cys
180 185 190
Ser Leu Ile Ile Pro Leu Arg Glu Val Thr Ile Val Glu Lys Ala Asp
195 200 205
Ser Ser Ser Val Leu Pro Ser Pro Leu Ser Ile Ser Thr Arg Asn Arg
210 215 220
Met Thr Phe Leu Phe Ala Asn Leu Lys Asp Arg Asp Phe Leu Val Gln
225 230 235 240
Arg Ile Ser Asp Phe Leu Gln Gln Thr Thr Ser Lys Ile Tyr Ser Asp
245 250 255
Lys Glu Phe Ala Gly Ser Tyr Asn Ser Ser Asp Asp Glu Val Tyr Ser
260 265 270
Arg Pro Ser Ser Leu Val Ser Ser Ser Pro Gln Arg Ser Thr Ser Ser
275 280 285
Asp Ala Asp Gly Glu Arg Gln Phe Asn Leu Asn Gly Asn Ser Val Pro
290 295 300
Thr Ala Thr Gln Thr Leu Met Thr Met Tyr Arg Arg Arg Ser Pro Glu
305 310 315 320
Glu Phe Asn Pro Lys Leu Ala Lys Glu Phe Leu Lys Glu Gln Ala Trp
325 330 335
Lys Ile His Phe Ala Glu Tyr Gly Gln Gly Ile Cys Met Tyr Arg Thr
340 345 350
Glu Lys Thr Arg Glu Leu Val Leu Lys Gly Ile Pro Glu Ser Met Arg
355 360 365
Gly Glu Leu Trp Leu Leu Leu Ser Gly Ala Ile Asn Glu Lys Ala Thr
370 375 380
His Pro Gly Tyr Tyr Glu Asp Leu Val Glu Lys Ser Met Gly Lys Tyr
385 390 395 400
Asn Leu Ala Thr Glu Glu Ile Glu Arg Asp Leu His Arg Ser Leu Pro

405	410	415
Glu His Pro Ala Phe Gln Asn Glu Met Gly Ile Ala Ala Leu Arg Arg		
420	425	430
Val Leu Thr Ala Tyr Ala Phe Arg Asn Pro Asn Ile Gly Tyr Cys Gln		
435	440	445
Ala Met Asn Ile Val Thr Ser Val Leu Leu Leu Tyr Ala Lys Glu Glu		
450	455	460
Glu Ala Phe Trp Leu Leu Val Ala Leu Cys Glu Arg Met Leu Pro Asp		
465	470	475
Tyr Tyr Asn Thr Arg Val Val Gly Ala Leu Val Asp Gln Gly Val Phe		
485	490	495
Glu Glu Leu Ala Arg Asp Tyr Val Pro Gln Leu Tyr Asp Cys Met Gln		
500	505	510
Asp Leu Gly Val Ile Ser Thr Ile Ser Leu Ser Trp Phe Leu Thr Leu		
515	520	525
Phe Leu Ser Val Met Pro Phe Glu Ser Ala Val Val Val Val Asp Cys		
530	535	540
Phe Phe Tyr Glu Gly Ile Lys Val Ile Phe Gln Leu Ala Leu Ala Val		
545	550	555
Leu Asp Ala Asn Val Asp Lys Leu Leu Asn Cys Lys Asp Asp Gly Glu		
565	570	575
Ala Met Thr Val Leu Gly Arg Tyr Leu Asp Ser Val Thr Asn Lys Asp		
580	585	590
Ser Thr Leu Pro Pro Ile Pro His Leu His Ser Leu Leu Ser Asp Asp		
595	600	605
Val Glu Pro Tyr Pro Glu Val Asp Ile Phe Arg Leu Ile Arg Thr Ser		
610	615	620
Tyr Glu Lys Phe Gly Thr Ile Arg Ala Asp Leu Ile Glu Gln Met Arg		
625	630	635
		640

Phe Lys Gln Arg Leu Lys Val Ile Gln Thr Leu Glu Asp Thr Thr Lys
645 650 655
Arg Asn Val Val Arg Thr Ile Val Thr Glu Thr Ser Phe Thr Ile Asp
660 665 670
Glu Leu Glu Glu Leu Tyr Ala Leu Phe Lys Ala Glu His Leu Thr Ser
675 680 685
Cys Tyr Trp Gly Gly Ser Ser Asn Ala Leu Asp Arg His Asp Pro Ser
690 695 700
Leu Pro Tyr Leu Glu Gln Tyr Arg Ile Asp Phe Glu Gln Phe Lys Gly
705 710 715 720
Met Phe Ala Leu Leu Phe Pro Trp Ala Cys Gly Thr His Ser Asp Val
725 730 735
Leu Ala Ser Arg Leu Phe Gln Leu Leu Asp Glu Asn Gly Asp Ser Leu
740 745 750
Ile Asn Phe Arg Glu Phe Val Ser Gly Leu Ser Ala Ala Cys His Gly
755 760 765
Asp Leu Thr Glu Lys Leu Lys Leu Leu Tyr Lys Met His Val Leu Pro
770 775 780
Glu Pro Ser Ser Asp Gln Asp Glu Pro Asp Ser Ala Phe Glu Ala Thr
785 790 795 800
Gln Tyr Phe Phe Glu Asp Ile Thr Pro Glu Cys Thr His Val Val Gly
805 810 815
Leu Asp Ser Arg Ser Lys Gln Gly Ala Asp Asp Gly Phe Val Thr Val
820 825 830
Ser Leu Lys Pro Asp Lys Gly Lys Arg Ala Asn Ser Gln Glu Asn Arg
835 840 845
Asn Tyr Leu Arg Leu Trp Thr Pro Glu Asn Lys Ser Lys Ser Lys Asn
850 855 860
Ala Lys Asp Leu Pro Lys Leu Asn Gln Gly Gln Phe Ile Glu Leu Cys

865 870 875 880
Lys Thr Met Tyr Asn Met Phe Ser Glu Asp Pro Asn Glu Gln Glu Leu
 885 890 895
Tyr His Ala Thr Ala Ala Val Thr Ser Leu Leu Leu Glu Ile Gly Glu
 900 905 910
Val Gly Lys Leu Phe Val Ala Gln Pro Ala Lys Glu Asp Lys Leu His
 915 920 925
Cys Glu Asp Ile Gly Glu Asp Thr Val Leu Val Arg Ser Gly Gln Gly
 930 935 940
Thr Ala Ala Leu Pro Arg Ser Thr Gly Leu Asp Arg Asp Trp Ala Ile
945 950 955 960
Thr Phe Glu Gln Phe Leu Ala Ser Leu Leu Thr Glu Pro Ala Leu Val
 965 970 975
Lys Tyr Phe Asp Lys Pro Val Cys Met Met Ala Arg Ile Thr Ser Ala
 980 985 990
Lys Asn Ile Arg Met Met Gly Lys Pro Leu Thr Ser Ala Ser Asp Tyr
 995 1000 1005
Glu Ile Ser Ala Met Ser Gly
1010 1015

<210> 2376

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2376

Met Gly Thr Gly Gly Gln Gln Gly Pro Gly Gln Ser Ala Met Leu Arg
1 5 10 15

Thr Pro Arg Leu Leu Pro Gln Pro Leu Ala Thr Leu Tyr Arg Gly Arg
 20 25 30
 Gly Arg Pro Val Lys Phe Ala Lys Pro Asp Pro Ala Ala Trp Trp Gly
 35 40 45
 Trp Leu Gly Tyr Ser Phe Thr Lys Leu Cys Phe Thr Ala Ser Pro Leu
 50 55 60
 Tyr Thr Pro Ile Pro Cys Leu Pro Pro Phe Ser Trp Thr Val Cys Pro
 65 70 75 80
 Phe Gly Arg Lys Lys Thr Ser Pro Thr Arg Ala Lys Gly Ser Arg Ala
 85 90 95
 Leu Pro Ser Glu Arg Leu Trp Gly Ser Gly Ser Val Leu Cys Leu Thr
 100 105 110
 Ser Pro Gly Glu Gly Asp Ile Trp Leu Glu Asp Trp Asn Leu Ile Ala
 115 120 125
 Ile Val Phe Asp Phe Val Thr Phe Leu Leu Gly Ser Val Asn Tyr Pro
 130 135 140
 Pro Pro Arg Leu Pro Ala Pro
 145 150

<210> 2377

<211> 149

<212> PRT

<213> Homo sapiens

<400> 2377

Met Pro Val Pro Gly Gly Thr Ala Ser Gly Met Tyr Asn Arg Val Phe
 1 5 10 15
 Leu His Lys Thr Gly Arg Ile Val Leu Gly Ser Tyr Leu Lys Met Trp

20 25 30
 His Val Ala Pro His Gln Cys Phe Gly His Phe Ala Cys Thr Asn Ser
 35 40 45
 Gln Arg Met Gln Ala Thr Pro Gln Leu Val Ser Ile Thr Ile Ile Ser
 50 55 60
 Met Pro Thr Gly Phe Leu Phe Gly Trp Arg Glu Ala Glu Asp Lys Arg
 65 70 75 80
 Met Leu Gly Trp Ser Thr Gly Arg Pro Val Glu Gly Arg Asp Gly Val
 85 90 95
 Glu Ser Gly Pro Ala Glu Asn Gly Leu Gly Lys Pro Gly Gln Ser Phe
 100 105 110
 Arg Ser Ile Trp Ala Asn Leu Val Phe Lys Gly Gln Ser His Lys Asp
 115 120 125
 Leu Lys Cys Tyr Leu Pro Pro Pro Val Leu Thr Phe Asp Thr Ser Asn
 130 135 140
 Ala Tyr Ser Leu Leu
 145

<210> 2378

<211> 154

<212> PRT

<213> Homo sapiens

<400> 2378

Met Cys Thr Val Ala His Thr Cys Ile Glu His Met Cys Thr Tyr Met
 1 5 10 15
 Arg Leu His Pro Leu Ala His Pro His Thr Cys Ala Leu Ala Pro Ile
 20 25 30

Cys Thr His Val His Thr Leu Ala His Met Cys Ile Cys Arg Asn Ala
 35 40 45
 Pro Leu His Leu Cys Asp Thr Pro Ala His Leu His Thr Pro Ile Cys
 50 55 60
 Ile Gln Ala Gln Thr His Ser His Thr Phe Ala His Thr Ala Thr Asn
 65 70 75 80
 Leu His Lys Gln His Leu Tyr Thr Asp Thr Tyr Pro Phe Val Pro Ile
 85 90 95
 Gln Cys Thr Leu Thr His Leu His Thr Ala Val Leu Ala His Thr Phe
 100 105 110
 Ala His Thr His Leu His Thr Cys Thr His Thr Thr His Leu Ser Val
 115 120 125
 Gln His Thr Tyr Leu Cys Ala Tyr Met His Ile Cys Thr Cys Thr Gln
 130 135 140
 Gln Trp His Thr Leu Leu Tyr His Ser Pro
 145 150

<210> 2379

<211> 764

<212> PRT

<213> Homo sapiens

<400> 2379

Met Val Leu Ala Thr Gly Asp Asp Leu Gly Phe Val Lys Leu Phe Arg
 1 5 10 15
 Tyr Pro Thr Lys Gly Lys Phe Gly Lys Phe Lys Arg Tyr Val Ala His
 20 25 30
 Ser Thr His Val Thr Asn Val Arg Trp Thr Tyr Asp Asp Ser Met Leu

35 40 45
Val Thr Leu Gly Gly Thr Asp Met Ser Leu Met Val Trp Thr Asn Glu
50 55 60
Met Glu Gly Tyr Arg Glu Lys Arg Pro Cys Asp Ser Glu Glu Ser Asp
65 70 75 80
Ile Asp Ser Glu Glu Asp Gly Gly Tyr Asp Ser Asp Val Thr Arg Glu
85 90 95
Asn Glu Ile Ser Tyr Thr Ile Arg Ala Leu Ser Thr Asn Ile Arg Pro
100 105 110
Met Leu Gly Ile Lys Pro His Leu Gln Gln Lys Glu Pro Ser Ile Asp
115 120 125
Glu Arg Pro Pro Val Ser Arg Ala Pro Pro Gln Pro Glu Lys Leu Gln
130 135 140
Thr Asn Asn Val Gly Lys Lys Lys Arg Pro Ile Glu Asp Leu Val Leu
145 150 155 160
Glu Leu Ile Phe Gly Tyr Arg Gly Arg Asp Cys Arg Asn Asn Val His
165 170 175
Tyr Leu Asn Asp Gly Asp Asp Ile Ile Tyr His Thr Ala Ser Val Gly
180 185 190
Ile Leu His Asn Ala Ala Thr Gly Ser Gln Ser Phe Tyr Gln Glu His
195 200 205
Asn Asp Asp Ile Leu Cys Leu Thr Val Asn Gln His Pro Lys Phe Ile
210 215 220
Asn Ile Val Ala Thr Gly Gln Val Gly Asp Ser Ala Asp Met Ser Ala
225 230 235 240
Thr Ala Pro Ser Ile His Ile Trp Asp Ala Met Asn Lys Gln Thr Leu
245 250 255
Ser Ile Leu Arg Cys Tyr His Ser Lys Gly Val Cys Ser Val Ser Phe
260 265 270

Ser Ala Thr Gly Lys Leu Leu Leu Ser Val Gly Leu Asp Pro Glu His
275 280 285

Thr Ile Thr Ile Trp Arg Trp Gln Glu Gly Ala Lys Ile Ala Ser Arg
290 295 300

Ala Gly His Asn Gln Arg Ile Phe Val Ala Glu Phe Arg Pro Asp Ser
305 310 315 320

Asp Thr Gln Phe Val Ser Val Gly Val Lys His Val Lys Phe Trp Thr
325 330 335

Leu Ala Gly Arg Ala Leu Leu Ser Lys Lys Gly Leu Leu Ser Thr Leu
340 345 350

Glu Asp Ala Arg Met Gln Thr Met Leu Ala Ile Ala Phe Gly Ala Asn
355 360 365

Asn Leu Thr Phe Thr Gly Thr Ile Ser Gly Asp Val Cys Val Trp Lys
370 375 380

Asp His Ile Leu Cys Arg Ile Val Ala Arg Ala His Asn Gly Pro Val
385 390 395 400

Phe Ala Met Tyr Thr Thr Leu Arg Asp Gly Leu Ile Val Thr Gly Gly
405 410 415

Lys Glu Arg Pro Ser Lys Glu Gly Gly Ala Val Lys Leu Trp Asp Gln
420 425 430

Glu Leu Arg Arg Cys Arg Ala Phe Arg Leu Glu Thr Gly Gln Ala Thr
435 440 445

Asp Cys Val Arg Ser Val Cys Arg Gly Lys Gly Lys Ile Leu Val Gly
450 455 460

Thr Arg Asn Ala Glu Ile Ile Glu Val Gly Glu Lys Asn Ala Ala Cys
465 470 475 480

Asn Ile Leu Val Asn Gly His Val Asp Gly Pro Ile Trp Gly Leu Ala
485 490 495

Thr His Pro Ser Arg Asp Phe Phe Leu Ser Ala Ala Glu Asp Gly Thr

500	505	510	
Val Arg Leu Trp Asp Ile Ala Asp Lys Lys Met Leu Asn Lys Val Asn			
515	520	525	
Leu Gly His Ala Ala Arg Thr Val Cys Tyr Ser Pro Glu Gly Asp Met			
530	535	540	
Val Ala Ile Gly Met Lys Asn Gly Glu Phe Ile Ile Leu Leu Val Ser			
545	550	555	560
Ser Leu Lys Ile Trp Gly Lys Lys Arg Asp Arg Arg Cys Ala Ile His			
565	570	575	
Asp Ile Arg Phe Ser Pro Asp Ser Arg Tyr Leu Ala Val Gly Ser Ser			
580	585	590	
Glu Asn Ser Val Asp Phe Tyr Asp Leu Thr Leu Gly Pro Thr Leu Asn			
595	600	605	
Arg Ile Ser Tyr Cys Lys Asp Ile Pro Ser Phe Val Ile Gln Met Asp			
610	615	620	
Phe Ser Ala Asp Ser Ser Tyr Leu Gln Val Ser Ser Gly Cys Tyr Lys			
625	630	635	640
Arg His Val Tyr Glu Val Pro Ser Gly Lys His Leu Met Asp His Ala			
645	650	655	
Ala Ile Asp Arg Ile Thr Trp Ala Thr Trp Thr Ser Ile Leu Gly Asp			
660	665	670	
Glu Val Leu Gly Ile Trp Ser Arg His Ala Glu Lys Ala Asp Val Asn			
675	680	685	
Cys Ala Cys Val Ser His Ser Gly Ile Ser Leu Val Thr Gly Asp Asp			
690	695	700	
Phe Gly Met Val Lys Leu Phe Asp Phe Pro Cys Pro Glu Lys Phe Ala			
705	710	715	720
Lys His Lys Arg Phe Leu Gly His Ser Pro His Val Thr Asn Ile Arg			
725	730	735	

Phe Thr Ser Gly Asp Arg His Val Val Ser Ala Gly Gly Asp Asp Cys

740

745

750

Ser Leu Phe Val Trp Lys Cys Val His Thr Pro His

755

760

<210> 2380

<211> 412

<212> PRT

<213> Homo sapiens

<400> 2380

Met Thr Gln Lys Gly Ser Met Lys Pro Val Lys Lys Lys Lys Thr Glu

1

5

10

15

Glu Pro Glu Leu Glu Pro Leu Cys Cys Cys Glu Tyr Ile Asp Arg Asn

20

25

30

Gly Glu Lys Asn His Val Ala Thr Cys Leu Cys Asp Cys Gln Asp Leu

35

40

45

Asp Glu Gly Cys Asp Arg Trp Ile Thr Cys Lys Ser Leu Gln Pro Glu

50

55

60

Thr Cys Glu Arg Ile Met Asp Thr Ile Ser Asp Arg Leu Arg Ile Pro

65

70

75

80

Trp Leu Arg Gly Ala Lys Lys Val Asn Ile Ser Ile Ile Pro Pro Leu

85

90

95

Val Leu Leu Pro Val Phe Leu His Val Ala Ser Trp His Phe Leu Leu

100

105

110

Gly Val Val Val Leu Thr Ser Leu Pro Val Leu Ala Leu Trp Tyr Tyr

115

120

125

Tyr Leu Thr His Arg Arg Lys Glu Gln Thr Leu Phe Phe Leu Ser Leu

130 135 140
Gly Leu Phe Ser Leu Gly Tyr Met Tyr Tyr Val Phe Leu Gln Glu Val
145 150 155 160
Val Pro Lys Gly Arg Val Gly Pro Val Gln Leu Ala Val Leu Thr Cys
165 170 175
Gly Leu Phe Leu Ile Leu Leu Ala Leu His Arg Ala Lys Lys Asn Pro
180 185 190
Ser Tyr Leu Ser Asn Pro Ala Ser Gly Asp Arg Ser Leu Ser Ser Ser
195 200 205
Gln Leu Glu Cys Leu Ser Arg Lys Gly Gln Glu Lys Thr Lys Gly Phe
210 215 220
Pro Gly Ala Asp Met Ser Gly Ser Leu Asn Asn Arg Thr Thr Lys Asp
225 230 235 240
Asp Pro Lys Gly Ser Ser Arg Met Pro Ala Gly Ser Pro Thr Lys Ala
245 250 255
Lys Glu Asp Trp Cys Ala Lys Cys Gln Leu Val Arg Pro Ala Arg Ala
260 265 270
Trp His Cys Arg Ile Cys Gly Ile Cys Val Arg Arg Met Asp His His
275 280 285
Cys Val Trp Ile Asn Ser Cys Val Gly Glu Ser Asn His Gln Ala Phe
290 295 300
Ile Leu Ala Leu Leu Ile Phe Leu Leu Thr Ser Val Tyr Gly Ile Thr
305 310 315 320
Leu Thr Leu Asp Thr Ile Cys Arg Asp Arg Ser Val Phe Thr Ala Leu
325 330 335
Phe Tyr Cys Pro Gly Val Tyr Ala Asn Tyr Ser Ser Ala Leu Ser Phe
340 345 350
Thr Cys Val Trp Tyr Ser Val Ile Ile Thr Ala Gly Met Ala Tyr Ile
355 360 365

Phe Leu Ile Gln Leu Ile Asn Ile Ser Tyr Asn Val Thr Glu Arg Glu
 370 375 380
 Val Gln Gln Ala Leu Arg Gln Lys Thr Gly Arg Arg Leu Leu Cys Gly
 385 390 395 400
 Leu Ile Val Asp Thr Gly Lys Val Leu Ala His Leu
 405 410

<210> 2381

<211> 196

<212> PRT

<213> Homo sapiens

<400> 2381

Met Glu Glu Cys Pro Arg Ser Arg Ser Gly Ala Glu Gly Pro Val Gly
 1 5 10 15
 Ser Ala Leu Gln Ser Thr Gly Ser Cys Pro Ala Pro Arg Leu Pro Pro
 20 25 30
 Pro Ser Ala His Trp Pro Ala Leu Cys Ser Leu His Ser Arg His Arg
 35 40 45
 His Pro His Leu Trp Ser Glu His Pro Cys Ala Trp Ser Gly His Ile
 50 55 60
 Gly Gln Gln Pro Leu Leu Trp Gly Ile Phe Ser Thr Arg Pro Arg Leu
 65 70 75 80
 Cys Trp Cys Trp Thr Val Arg Ile Gly Gly Pro Phe Ile Phe His Trp
 85 90 95
 Cys Gly Ile Gln Asp Pro Arg Gly Ser Thr Ala Thr Ala Gly Pro Lys
 100 105 110
 Ala Ala His Pro Gln Lys Val Ala Phe Val Pro Cys Pro Cys Ser Pro

115 120 125
 His Pro Phe Pro Lys Ser Gly Pro Trp His Val Leu Glu Arg Ala Leu
 130 135 140
 Asp Pro Ser Ser Cys Val Lys Gln Thr Tyr Pro Gly Ser Leu Ala Ser
 145 150 155 160
 Ala Ala Arg Gly Gln Trp Gln Pro Trp Gly Pro Phe Pro Ser Gly Gly
 165 170 175
 Ser Thr Ser Leu Arg Glu Gly Glu Ala Gly Cys Gly Gly Pro Lys Pro
 180 185 190
 Gly Thr Ser Thr
 195

<210> 2382

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2382

Met Pro Arg Gln Trp Ser Leu Leu Cys His Phe Val Thr Ser Ser Phe
 1 5 10 15
 Ser Val His Leu Ala Cys Ser Phe Leu Cys Val Arg Asp Phe Pro Trp
 20 25 30
 Met His Ile Tyr Val Ser Ala Ser Gln Glu Lys Leu Leu Glu Val Phe
 35 40 45
 Cys Val Cys Val Gly Ile Leu Gly Leu Pro Val Gly Gln Thr Trp Arg
 50 55 60
 Ala Gly Phe Tyr Ala Trp Glu Ser Ala Gln Val Arg Pro Phe Arg Ser
 65 70 75 80

Phe Gly Glu Cys Gly Ser Ile Ser Pro Glu Met Asp Ser Val Trp Leu
 85 90 95
 Asp Gly Gly Ser Met Ser Arg Ala Val Asp Trp Ala
 100 105

<210> 2383

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2383

Met Val Leu Leu Ala Ser Pro Gly Leu Val Glu Ala Gln Lys Pro Gly
 1 5 10 15
 Val Pro His Leu Gly Ser Leu Ile Asp Arg Asp Cys Leu His Lys Met
 20 25 30
 Cys Leu Glu Met Ser Gly Gly Thr Ser Ala Cys His His Asp Trp Gly
 35 40 45
 His Phe Leu Gly Gln Ser Gln Val Cys Ser Arg Pro Tyr Asn Ile Gln
 50 55 60
 Gly Arg Ala Thr Lys Gln Arg Phe Tyr Leu Tyr Gln Asn Ala Lys Glu
 65 70 75 80
 Pro Leu Ser Arg Asn Ala Thr Gln Ser Pro Phe Arg Arg Ile Phe Gln
 85 90 95
 Asn Lys Ala Ala Val Cys Pro Gln Arg Ser Thr Glu Asp Phe
 100 105 110

<210> 2384

<211> 212

<212> PRT

<213> Homo sapiens

<400> 2384

Met Leu Leu Leu His Ser Lys Pro Ser Asn Gly Phe Leu Asn His Leu

1 5 10 15

Gln Cys Lys Ser Lys Tyr Asn Cys Leu Glu Gly Pro Met Ser Ser Gly

20 25 30

Pro Cys Glu Asn Ser Asp Lys Phe Phe Leu Ser Gly Leu Leu Tyr Pro

35 40 45

Ser His Asp Gly Ala Ser Ile Leu Phe Leu Asn Thr Leu Ser Met Pro

50 55 60

Asn Phe Arg Pro Leu His Leu Pro Leu Pro Gln Val Glu Thr Val Phe

65 70 75 80

Pro Gln Pro Ile Trp Leu Ser Phe Ser Phe Pro Ser Thr Leu Lys Tyr

85 90 95

Tyr Pro Ile Ser Glu Ser Phe Pro Asp His Tyr Arg Ser Asn Ser His

100 105 110

Pro His Pro Cys Ser Phe Ser Cys Phe Ser Ser Thr Val Leu Tyr Phe

115 120 125

Ser Thr His Ser Leu His Leu Ser Asp Pro Ser Phe Ile Tyr Leu Leu

130 135 140

Lys Val His Cys Leu Leu Ile Leu Tyr Val Asn Thr Val Ser Ile Glu

145 150 155 160

Ile Tyr Val Phe Cys Ser Leu Leu Gln Leu Trp Leu Glu Lys Leu Ser

165 170 175

Ile Phe Leu Thr Phe Ile Ile Pro Ala Phe Ile Val Phe Thr Cys Tyr

180 185 190

Val Tyr Leu Val Asn Leu Ser Tyr Phe Leu Lys Asn Leu Ser Val Lys

195

200

205

Ile Phe Val Phe

210

<210> 2385

<211> 418

<212> PRT

<213> Homo sapiens

<400> 2385

Met His Gly Val Cys Lys Glu Gly Asp Asn Cys Arg Tyr Ser His Asp

1

5

10

15

Leu Ser Asp Ser Pro Tyr Ser Val Val Cys Lys Tyr Phe Gln Arg Gly

20

25

30

Tyr Cys Ile Tyr Gly Asp Arg Cys Arg Tyr Glu His Ser Lys Pro Leu

35

40

45

Lys Gln Glu Glu Ala Thr Ala Thr Glu Leu Thr Thr Lys Ser Ser Leu

50

55

60

Ala Ala Ser Ser Ser Leu Ser Ser Ile Val Gly Pro Leu Val Glu Met

65

70

75

80

Asn Thr Gly Glu Ala Glu Ser Arg Asn Ser Asn Phe Ala Thr Val Gly

85

90

95

Ala Gly Ser Glu Asp Trp Val Asn Ala Ile Glu Phe Val Pro Gly Gln

100

105

110

Pro Tyr Cys Gly Arg Thr Ala Pro Ser Cys Thr Glu Ala Pro Leu Gln

115

120

125

Gly Ser Val Thr Glu Glu Glu Ser Glu Lys Glu Gln Thr Ala Val Glu

130 135 140
Thr Lys Lys Gln Leu Cys Pro Tyr Ala Ala Val Gly Glu Cys Arg Tyr
145 150 155 160
Gly Glu Asn Cys Val Tyr Leu His Gly Asp Ser Cys Asp Met Cys Gly
165 170 175
Leu Gln Leu Leu His Pro Met Asp Ala Ala Gln Arg Ser Gln His Ile
180 185 190
Lys Ser Cys Ile Glu Ala His Glu Lys Asp Met Glu Leu Ser Phe Ala
195 200 205
Val Gln Arg Ser Lys Asp Met Val Cys Gly Ile Cys Met Glu Val Val
210 215 220
Tyr Glu Lys Ala Asn Pro Ser Glu Arg Arg Phe Gly Ile Leu Ser Asn
225 230 235 240
Cys Asn His Thr Tyr Cys Leu Lys Cys Ile Arg Lys Trp Arg Ser Ala
245 250 255
Lys Gln Phe Glu Ser Lys Ile Ile Lys Ser Cys Pro Glu Cys Arg Ile
260 265 270
Thr Ser Asn Phe Val Ile Pro Ser Glu Tyr Trp Val Glu Glu Lys Glu
275 280 285
Glu Lys Gln Lys Leu Ile Leu Lys Tyr Lys Glu Ala Met Ser Asn Lys
290 295 300
Ala Cys Arg Tyr Phe Asp Glu Gly Arg Gly Ser Cys Pro Phe Gly Gly
305 310 315 320
Asn Cys Phe Tyr Lys His Ala Tyr Pro Asp Gly Arg Arg Glu Glu Pro
325 330 335
Gln Arg Gln Lys Val Gly Thr Ser Ser Arg Tyr Arg Ala Gln Arg Arg
340 345 350
Asn His Phe Trp Glu Leu Ile Glu Glu Arg Glu Asn Ser Asn Pro Phe
355 360 365

Asp Asn Asp Glu Glu Glu Val Val Thr Phe Glu Leu Gly Glu Met Leu
 370 375 380
 Leu Met Leu Leu Ala Ala Gly Gly Asp Asp Glu Leu Thr Asp Ser Glu
 385 390 395 400
 Asp Glu Trp Asp Leu Phe His Asp Glu Leu Glu Asp Phe Tyr Asp Leu
 405 410 415
 Asp Leu

<210> 2386

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2386

Met Val Cys Pro Glu Phe Val Pro Ser Tyr Val Pro Thr Cys Ser Glu
 1 5 10 15
 Phe Val Pro Ser Gly Gly Phe Val Val Ser Leu Ala Ser Gly Val Lys
 20 25 30
 Leu Gln Thr Leu Ala Val Ser Val Thr Ala Pro Lys Ala Ala His Leu
 35 40 45
 Glu Leu Phe Val Pro Pro Gly Gly Phe Leu Val Ser Leu Val Ser Glu
 50 55 60
 Met Lys Leu His Thr Phe Thr Gly Ser Val Thr Gly His Lys Gly Ser
 65 70 75 80
 Thr Asp Pro Lys Ser Glu Gln Gln Gln Asn Leu Trp Gln Arg Gly Lys
 85 90 95
 Glu Glu Gly Phe His Ser Met Glu Gly Asn Pro Ser Arg Ser Ala Val

100 105 110
Ala Gly Ser Gly Gly Leu Arg Leu Phe Pro Tyr Leu Ala Pro Pro Ala
115 120 125
Ser Cys
130

<210> 2387

<211> 399

<212> PRT

<213> Homo sapiens

<400> 2387

Met Leu Pro Leu Glu Pro Tyr Leu Thr Gln Thr Ser Ala Val Pro Gln
1 5 10 15
Met Ser His Phe Met Cys His Ser Pro Thr His Lys Pro Gln Gly Leu
20 25 30
Leu Pro Trp Ala Pro Phe His Gln Ala Ser Val Ser Leu Tyr Pro Ile
35 40 45
Ser Pro Trp Pro Ser Glu Ser Val Cys Pro Pro Thr Cys Pro Gly Gly
50 55 60
Ala Ser Cys Trp Phe Pro Ala Gly Asn Ala Trp Asp Arg Val Glu Leu
65 70 75 80
Gly Phe Leu Gly Phe Gly Ala Gly Gly Val Ser Ile Ala Val Pro Gly
85 90 95
Phe Pro Leu Ser Cys Gly Gln Gly Cys Cys Ala Gly Gly Trp Leu Gly
100 105 110
His Gly Ala Arg Phe Pro Ala Lys Leu Arg Ala Phe Pro Gln Val Ile
115 120 125

Arg Arg Gly Trp Leu Thr Ile Asn Asn Ile Ser Leu Met Lys Gly Gly
130 135 140
Ser Lys Glu Tyr Trp Phe Val Leu Thr Ala Glu Ser Leu Ser Trp Tyr
145 150 155 160
Lys Asp Glu Glu Glu Lys Glu Lys Lys Tyr Met Leu Pro Leu Asp Asn
165 170 175
Leu Lys Ile Arg Asp Val Glu Lys Gly Phe Met Ser Asn Lys His Val
180 185 190
Phe Ala Ile Phe Asn Thr Glu Gln Arg Asn Val Tyr Lys Asp Leu Arg
195 200 205
Gln Ile Glu Leu Ala Cys Asp Ser Gln Glu Asp Val Asp Ser Trp Lys
210 215 220
Ala Ser Phe Leu Arg Ala Gly Val Tyr Pro Glu Lys Asp Gln Ala Glu
225 230 235 240
Asn Glu Asp Gly Ala Gln Glu Asn Thr Phe Ser Met Asp Pro Gln Leu
245 250 255
Glu Arg Gln Val Glu Thr Ile Arg Asn Leu Val Asp Ser Tyr Val Ala
260 265 270
Thr Ile Asn Lys Ser Ile Arg Asp Leu Met Pro Lys Thr Ile Met His
275 280 285
Leu Met Ile Asn Asn Thr Lys Ala Phe Ile His His Glu Leu Leu Ala
290 295 300
Tyr Leu Tyr Ser Ser Ala Asp Gln Ser Ser Leu Met Glu Glu Ser Ala
305 310 315 320
Asp Gln Ala Gln Arg Arg Asp Asp Met Leu Arg Met Tyr His Ala Leu
325 330 335
Lys Glu Ala Leu Asn Ile Ile Gly Asp Ile Ser Thr Ser Thr Val Ser
340 345 350
Thr Pro Val Pro Pro Pro Val Asp Asp Thr Trp Leu Gln Ser Ala Ser

355 360 365
 Ser Arg Ser Pro Thr Pro Gln Arg Arg Pro Val Ser Ser Ile His Pro
 370 375 380
 Pro Gly Arg Pro Pro Ala Val Arg Gly Pro Thr Pro Gly Pro Pro
 385 390 395

<210> 2388

<211> 206

<212> PRT

<213> Homo sapiens

<400> 2388

Met Ser Gln Lys Pro Ala Lys Glu Gly Pro Arg Leu Ser Lys Asn Gln
 1 5 10 15
 Lys Tyr Ser Glu His Phe Ser Ile His Cys Cys Pro Pro Phe Thr Phe
 20 25 30
 Leu Asn Ser Lys Lys Glu Ile Glu Asp Arg Lys Tyr Ser Ile Cys Lys
 35 40 45
 Ser Gly Cys Phe Tyr Gln Lys Lys Glu Glu Asp Trp Ile Cys Cys Ala
 50 55 60
 Cys Gln Lys Thr Ser Ser Cys Gln Arg Arg Leu Ser Ser Arg Gly Glu
 65 70 75 80
 Pro Trp Leu Pro Pro Pro Ala Ser Phe Gly Pro Leu Arg Thr Ser Arg
 85 90 95
 Arg Ala Lys Ser Pro Gln Arg Pro Lys Gln Gln Pro Ala Ala Pro Pro
 100 105 110
 Ala Val Val Arg Ala Pro Ala Lys Pro Arg Ser Pro Pro Arg Ser Glu
 115 120 125

Arg Gln Pro Arg Ser Pro Pro Arg Ser Glu Arg Gln Pro Arg Ser Pro
 130 135 140
 Pro Arg Ser Glu Arg Gln Pro Arg Ser Pro Pro Arg Ser Glu Arg Gln
 145 150 155 160
 Pro Arg Pro Arg Pro Glu Val Arg Pro Pro Pro Ala Lys Gln Arg Pro
 165 170 175
 Pro Gln Lys Ser Lys Gln Gln Pro Arg Ser Ser Pro Leu Arg Gly Pro
 180 185 190
 Gly Ala Ser Arg Gly Gly Ser Pro Val Lys Ala Ser Arg Phe
 195 200 205

<210> 2389

<211> 865

<212> PRT

<213> Homo sapiens

<400> 2389

Met Trp Gln Glu Ala Met Arg Arg Arg Arg Tyr Leu Arg Asp Arg Ser
 1 5 10 15
 Glu Glu Ala Ala Gly Gly Gly Asp Gly Leu Pro Arg Ser Arg Asp Trp
 20 25 30
 Leu Tyr Glu Ser Tyr Tyr Cys Met Ser Gln Gln His Pro Leu Ile Val
 35 40 45
 Phe Leu Leu Leu Ile Val Met Gly Ser Cys Leu Ala Leu Leu Ala Val
 50 55 60
 Phe Phe Ala Leu Gly Leu Glu Val Glu Asp His Val Ala Phe Leu Ile
 65 70 75 80
 Thr Val Pro Thr Ala Leu Ala Ile Phe Phe Ala Ile Phe Ile Leu Val

	85	90	95
Cys Ile Glu Ser Val Phe Lys Lys Leu Leu Arg Leu Phe Ser Leu Val			
100	105	110	
Ile Trp Ile Cys Leu Val Ala Met Gly Tyr Leu Phe Met Cys Phe Gly			
115	120	125	
Gly Thr Val Ser Pro Trp Asp Gln Val Ser Phe Phe Leu Phe Ile Ile			
130	135	140	
Phe Val Val Tyr Thr Met Leu Pro Phe Asn Met Arg Asp Ala Ile Ile			
145	150	155	160
Ala Ser Val Leu Thr Ser Ser Ser His Thr Ile Val Leu Ser Val Cys			
165	170	175	
Leu Ser Ala Thr Pro Gly Gly Lys Glu His Leu Val Trp Gln Ile Leu			
180	185	190	
Ala Asn Val Ile Ile Phe Ile Cys Gly Asn Leu Ala Gly Ala Tyr His			
195	200	205	
Lys His Leu Met Glu Leu Ala Leu Gln Gln Thr Tyr Gln Asp Thr Cys			
210	215	220	
Asn Cys Ile Lys Ser Arg Ile Lys Leu Glu Phe Glu Lys Arg Gln Gln			
225	230	235	240
Glu Arg Leu Leu Leu Ser Leu Leu Pro Ala His Ile Ala Met Glu Met			
245	250	255	
Lys Ala Glu Ile Ile Gln Arg Leu Gln Gly Pro Lys Ala Gly Gln Met			
260	265	270	
Glu Asn Thr Asn Asn Phe His Asn Leu Tyr Val Lys Arg His Thr Asn			
275	280	285	
Val Ser Ile Leu Tyr Ala Asp Ile Val Gly Phe Thr Arg Leu Ala Ser			
290	295	300	
Asp Cys Ser Pro Gly Glu Leu Val His Met Leu Asn Glu Leu Phe Gly			
305	310	315	320

Lys Phe Asp Gln Ile Ala Lys Glu Asn Glu Cys Met Arg Ile Lys Ile
325 330 335
Leu Gly Asp Cys Tyr Tyr Cys Val Ser Gly Leu Pro Ile Ser Leu Pro
340 345 350
Asn His Ala Lys Asn Cys Val Lys Met Gly Leu Asp Met Cys Glu Ala
355 360 365
Ile Lys Lys Val Arg Asp Ala Thr Gly Val Asp Ile Asn Met Arg Val
370 375 380
Gly Val His Ser Gly Asn Val Leu Cys Gly Val Ile Gly Leu Gln Lys
385 390 395 400
Trp Gln Tyr Asp Val Trp Ser His Asp Val Thr Leu Ala Asn His Met
405 410 415
Glu Ala Gly Gly Val Pro Gly Arg Val His Ile Ser Ser Val Thr Leu
420 425 430
Glu His Leu Asn Gly Ala Tyr Lys Val Glu Glu Gly Asp Gly Asp Ile
435 440 445
Arg Asp Pro Tyr Leu Lys Gln His Leu Val Lys Thr Tyr Phe Val Ile
450 455 460
Asn Pro Lys Gly Glu Arg Arg Ser Pro Gln His Leu Phe Arg Pro Arg
465 470 475 480
His Thr Leu Asp Gly Ala Lys Met Arg Ala Ser Val Arg Met Thr Arg
485 490 495
Tyr Leu Glu Ser Trp Gly Ala Ala Lys Pro Phe Ala His Leu His His
500 505 510
Arg Asp Ser Met Thr Thr Glu Asn Gly Lys Ile Ser Thr Thr Asp Val
515 520 525
Pro Met Gly Gln His Asn Phe Gln Asn Arg Thr Leu Arg Thr Lys Ser
530 535 540
Gln Lys Lys Arg Phe Glu Glu Glu Leu Asn Glu Arg Met Ile Gln Ala

545 550 555 560
Ile Asp Gly Ile Asn Ala Gln Lys Gln Trp Leu Lys Ser Glu Asp Ile
 565 570 575
Gln Arg Ile Ser Leu Leu Phe Tyr Asn Lys Val Leu Glu Lys Glu Tyr
 580 585 590
Arg Ala Thr Ala Leu Pro Ala Phe Lys Tyr Tyr Val Thr Cys Ala Cys
 595 600 605
Leu Ile Phe Phe Cys Ile Phe Ile Val Gln Ile Leu Val Leu Pro Lys
 610 615 620
Thr Ser Val Leu Gly Ile Ser Phe Gly Ala Ala Phe Leu Leu Leu Ala
625 630 635 640
Phe Ile Leu Phe Val Cys Phe Ala Gly Gln Leu Leu Gln Cys Ser Lys
 645 650 655
Lys Ala Ser Pro Leu Leu Met Trp Leu Leu Lys Ser Ser Gly Ile Ile
 660 665 670
Ala Asn Arg Pro Trp Pro Arg Ile Ser Leu Thr Ile Ile Thr Thr Ala
 675 680 685
Ile Ile Leu Met Met Ala Val Phe Asn Met Phe Phe Leu Ser Asp Ser
 690 695 700
Glu Glu Thr Ile Pro Pro Thr Ala Asn Thr Thr Asn Thr Ser Phe Ser
705 710 715 720
Ala Ser Asn Asn Gln Val Ala Ile Leu Arg Ala Gln Asn Leu Phe Phe
 725 730 735
Leu Pro Tyr Phe Ile Tyr Ser Cys Ile Leu Gly Leu Ile Ser Cys Ser
 740 745 750
Val Phe Leu Arg Val Asn Tyr Glu Leu Lys Met Leu Ile Met Met Val
 755 760 765
Ala Leu Val Gly Tyr Asn Thr Ile Leu Leu His Thr His Ala His Val
 770 775 780

Leu Gly Asp Tyr Ser Gln Val Leu Phe Glu Arg Pro Gly Ile Trp Lys
 785 790 795 800
 Asp Leu Lys Thr Met Gly Ser Val Ser Leu Ser Ile Phe Phe Ile Thr
 805 810 815
 Leu Leu Val Leu Gly Arg Gln Asn Glu Tyr Tyr Cys Arg Leu Asp Phe
 820 825 830
 Leu Trp Lys Asn Lys Phe Lys Lys Glu Arg Glu Glu Ile Glu Thr Met
 835 840 845
 Glu Asn Leu Asn Arg Val Leu Leu Glu Asn Val Pro Ser Arg Ala Arg
 850 855 860
 Gly
 865

<210> 2390

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2390

Met Met Asp Asp Asp Thr Glu Leu Arg Thr Asp Gly Asn Ser Leu Leu
 1 5 10 15
 Lys Ala Val Trp Leu Gly Arg Leu Arg Leu Thr Arg Leu Leu Leu Glu
 20 25 30
 Gly Gly Ala Tyr Ile Asn Glu Ser Asn Asp Lys Gly Glu Thr Ala Leu
 35 40 45
 Met Val Ala Cys Ile Thr Lys His Val Asp Gln Gln Ser Ile Ser Lys
 50 55 60
 Ser Lys Met Val Lys Tyr Leu Leu Asp Asn Arg Ala Asp Pro Asn Ile

Ala Trp Val Pro Cys Glu Arg Pro Ala Cys Val Gly Trp Gly Gly Pro
 100 105 110
 Pro Gln Pro Pro Gly Ala Ile Cys Glu Ala Thr Ala Pro Pro Ser Ile
 115 120 125
 Phe Leu Pro Phe Pro Phe Gln Pro Leu Phe Gln Glu Pro Cys His Thr
 130 135 140
 His Thr Cys Ser Leu Pro Ser Pro Ala Leu Pro Pro Leu Leu Arg Arg
 145 150 155 160
 Gly Arg Pro Arg Pro Cys Ala Ala Leu Ala Leu Pro Ala Leu Ser Ser
 165 170 175
 Leu Phe Ser Pro Val Phe Ser Leu Leu Ser Leu Gln Leu Pro Ala Asp
 180 185 190
 Arg Val Arg Gln Val His Pro Val Leu Arg Ala Pro Gly Pro Pro Ser
 195 200 205
 Thr Ser Lys Gln Ile Pro Pro Leu Leu Gly Asp Leu Pro Phe Gln Ala
 210 215 220
 Cys Leu Asp Gly Cys Ser Val Thr
 225 230

<210> 2392

<211> 330

<212> PRT

<213> Homo sapiens

<400> 2392

Met Asp Gln Gly Asp Thr Pro Thr Leu Glu Glu Asp Leu Lys Lys Leu
 1 5 10 15
 Gln Leu Ser Glu Phe Phe Asp Ile Phe Glu Lys Glu Lys Val Asp Lys

20	25	30
Glu Ala Leu Ala Leu Cys Thr Asp Arg Asp Leu Gln Glu Ile Gly Ile		
35	40	45
Pro Leu Gly Pro Arg Lys Lys Ile Leu Asn Tyr Phe Ser Thr Arg Lys		
50	55	60
Asn Ser Met Gly Ile Lys Arg Pro Ala Pro Gln Pro Ala Ser Gly Ala		
65	70	75
Asn Ile Pro Lys Glu Ser Glu Phe Cys Ser Ser Ser Asn Thr Arg Asn		
85	90	95
Gly Asp Tyr Leu Asp Val Gly Ile Gly Gln Val Ser Val Lys Tyr Pro		
100	105	110
Arg Leu Ile Tyr Lys Pro Glu Ile Phe Phe Ala Phe Gly Ser Pro Ile		
115	120	125
Gly Met Phe Leu Thr Val Arg Gly Leu Lys Arg Ile Asp Pro Asn Tyr		
130	135	140
Arg Phe Pro Thr Cys Lys Gly Phe Phe Asn Ile Tyr His Pro Phe Asp		
145	150	155
Pro Val Ala Tyr Arg Ile Glu Pro Met Val Val Pro Gly Val Glu Phe		
165	170	175
Glu Pro Met Leu Ile Pro His His Lys Gly Arg Lys Arg Met His Leu		
180	185	190
Glu Leu Arg Glu Gly Leu Thr Arg Met Ser Met Asp Leu Lys Asn Asn		
195	200	205
Leu Leu Gly Ser Leu Arg Met Ala Trp Lys Ser Phe Thr Arg Ala Pro		
210	215	220
Tyr Pro Ala Leu Gln Ala Ser Glu Thr Pro Glu Glu Thr Glu Ala Glu		
225	230	235
Pro Glu Ser Thr Ser Glu Lys Pro Ser Asp Val Asn Thr Glu Glu Thr		
245	250	255

Ser Val Ala Val Lys Glu Glu Val Leu Pro Ile Asn Val Gly Met Leu
 260 265 270
 Asn Gly Gly Gln Arg Ile Asp Tyr Val Leu Gln Glu Lys Pro Ile Glu
 275 280 285
 Ser Phe Asn Glu Tyr Leu Phe Ala Leu Gln Ser His Leu Cys Tyr Trp
 290 295 300
 Glu Ser Glu Asp Thr Val Leu Leu Val Leu Lys Glu Ile Tyr Gln Thr
 305 310 315 320
 Gln Gly Ile Phe Leu Asp Gln Pro Leu Gln
 325 330

<210> 2393

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2393

Met Pro Ser Pro Trp Gly Gln Thr Leu Pro Val Gln Met Glu Ser Cys
 1 5 10 15
 Asp Leu Ser Ile Val Ser Leu Lys Val Asn Glu Val Glu Glu Val His
 20 25 30
 Trp Cys Leu Leu Ile Ser Leu Leu Ser Gly Arg Lys Glu Gly Ile Thr
 35 40 45
 Pro Trp Thr Gln Thr Ser Ala Gly Ser Leu Arg Arg Glu Leu Met Ser
 50 55 60
 Met Thr Ser Glu Lys Gly Lys Arg Ala Phe Met Leu Phe Met Tyr Thr
 65 70 75 80
 Gln Ala Met Ala Arg Gln Val Arg Asn Gly Leu Trp Leu Pro Ser Pro

85 90 95
Gly Glu Asp Lys Gln Ser Gly Arg Arg Gln Ala Ser Cys Lys Thr Leu
100 105 110
Ser Cys Arg His His Gln Tyr Gln Val Ser Cys Leu Arg Ser Phe Gly
115 120 125
Asp Ser Gly
130

<210> 2394

<211> 509

<212> PRT

<213> Homo sapiens

<400> 2394

Met Arg Glu Lys Ser Phe Gln Cys Ile Glu Ser Gly Lys Ser Phe Asn
1 5 10 15
Cys Ser Ser Leu Leu Lys Lys His Gln Ile Thr His Leu Glu Glu Lys
20 25 30
Gln Cys Lys Cys Asp Val Tyr Gly Lys Val Phe Asn Gln Lys Arg Tyr
35 40 45
Leu Ala Cys His Arg Arg Ser His Ile Asp Glu Lys Pro Tyr Lys Cys
50 55 60
Asn Glu Cys Gly Lys Ile Phe Gly His Asn Thr Ser Leu Phe Leu His
65 70 75 80
Lys Ala Leu His Thr Ala Asp Lys Pro Tyr Glu Cys Glu Glu Cys Asp
85 90 95
Lys Val Phe Ser Arg Lys Ser His Leu Glu Thr His Lys Ile Ile Tyr
100 105 110

Thr Gly Gly Lys Pro Tyr Lys Cys Lys Val Cys Asp Lys Ala Phe Thr
115 120 125
Cys Asn Ser Tyr Leu Ala Lys His Thr Ile Ile His Thr Gly Glu Lys
130 135 140
Pro Tyr Lys Cys Asn Glu Cys Gly Lys Val Phe Asn Arg Leu Ser Thr
145 150 155 160
Leu Ala Arg His Arg Arg Leu His Thr Gly Glu Lys Pro Tyr Glu Cys
165 170 175
Glu Glu Cys Glu Lys Val Phe Ser Arg Lys Ser His Leu Glu Arg His
180 185 190
Lys Thr Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Lys Val Cys Asp
195 200 205
Lys Ala Phe Ala Tyr Asn Ser Tyr Leu Ala Lys His Ser Ile Ile His
210 215 220
Thr Gly Glu Lys Pro Tyr Lys Cys Asn Glu Cys Gly Lys Val Phe Asn
225 230 235 240
Gln Gln Ser Thr Leu Ala Arg His His Arg Leu His Thr Ala Glu Lys
245 250 255
Pro Tyr Lys Cys Glu Glu Cys Asp Lys Val Phe Arg Cys Lys Ser His
260 265 270
Leu Glu Arg His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys
275 280 285
Lys Val Cys Asp Lys Ala Phe Arg Ser Asp Ser Cys Leu Thr Glu His
290 295 300
Gln Arg Val His Thr Gly Glu Lys Pro Tyr Thr Cys Asn Glu Cys Gly
305 310 315 320
Lys Val Phe Ser Thr Lys Ala Asn Leu Ala Cys His His Lys Leu His
325 330 335
Thr Ala Glu Lys Pro Tyr Lys Cys Glu Glu Cys Glu Lys Val Phe Ser

340 345 350
Arg Lys Ser His Met Glu Arg His Arg Arg Ile His Thr Gly Glu Lys
355 360 365
Pro Tyr Lys Cys Lys Val Cys Asp Lys Ala Phe Arg Arg Asp Ser His
370 375 380
Leu Ala Gln His Gln Arg Val His Thr Gly Glu Lys Pro Tyr Lys Cys
385 390 395 400
Asn Glu Cys Gly Lys Thr Phe Arg Gln Thr Ser Ser Leu Ile Ile His
405 410 415
Arg Arg Leu His Thr Gly Glu Lys Pro Tyr Lys Cys Asn Glu Cys Gly
420 425 430
Lys Thr Phe Ser Gln Met Ser Ser Leu Val Tyr His His Arg Leu His
435 440 445
Ser Gly Glu Lys Pro Tyr Lys Cys Asn Glu Cys Gly Lys Val Phe Asn
450 455 460
Gln Gln Ala His Leu Ala Gln His Gln Arg Val His Thr Gly Glu Lys
465 470 475 480
Pro Tyr Lys Cys Asn Glu Cys Gly Lys Thr Phe Ser Gln Met Ser Asn
485 490 495
Leu Val Tyr His His Arg Leu His Ser Gly Glu Lys Pro
500 505

<210> 2395

<211> 1032

<212> PRT

<213> Homo sapiens

<400> 2395

Met Cys Asn Glu Glu Thr Glu Ile Lys Glu Ala Gln Ser Tyr Gln Asn
 1 5 10 15
 Ser Pro Val Ser Ser Ala Thr Asn Gln Asp Ala Gly Tyr Gly Ser Pro
 20 25 30
 Phe Ser Glu Ser Ser Asp Gln Leu Ala His Phe Lys Gly Ser Ser Ser
 35 40 45
 Arg Glu Glu Lys Glu Asp Pro Gln Cys Pro Asp Ser Val Ser Tyr Pro
 50 55 60
 Gln Asp Ser Leu Ala Gln Ile Lys Ala Val Tyr Ala Asn Leu Phe Ser
 65 70 75 80
 Glu Ser Cys Trp Ser Ser Leu Ala Leu Asp Leu Lys Lys Ser Gly Ser
 85 90 95
 Thr Thr Ser Thr Asn Asp Ala Ser Gln Lys Glu Ser Ser Ala Pro Thr
 100 105 110
 Pro Thr Pro Pro Thr Cys Pro Val Ser Thr Thr Gly Pro Thr Thr Ser
 115 120 125
 Thr Pro Ser Thr Ser Cys Ser Ser Ser Thr Ser His Ser Ser Thr Thr
 130 135 140
 Ser Thr Ser Ser Ser Ser Gly Tyr Asp Trp His Gln Ala Ala Leu Ala
 145 150 155 160
 Lys Thr Leu Gln Gln Thr Ser Ser Tyr Gly Leu Leu Pro Glu Pro Ser
 165 170 175
 Leu Phe Ser Thr Val Gln Leu Tyr Arg Gln Asn Asn Lys Leu Tyr Gly
 180 185 190
 Ser Val Phe Thr Gly Ala Ser Lys Phe Arg Cys Lys Asp Cys Ser Ala
 195 200 205
 Ala Tyr Asp Thr Leu Val Glu Leu Thr Val His Met Asn Glu Thr Gly
 210 215 220
 His Tyr Arg Asp Asp Asn Arg Asp Lys Asp Ser Glu Lys Thr Lys Arg

225 230 235 240
Trp Ser Lys Pro Arg Lys Arg Ser Leu Met Glu Met Glu Gly Lys Glu
 245 250 255
Asp Ala Gln Lys Val Leu Lys Cys Met Tyr Cys Gly His Ser Phe Glu
 260 265 270
Ser Leu Gln Asp Leu Ser Val His Met Ile Lys Thr Lys His Tyr Gln
 275 280 285
Lys Val Pro Leu Lys Glu Pro Val Pro Ala Ile Thr Lys Leu Val Pro
 290 295 300
Ser Thr Lys Lys Arg Ala Leu Gln Asp Leu Ala Pro Pro Cys Ser Pro
305 310 315 320
Glu Pro Ala Gly Met Ala Ala Glu Val Ala Leu Ser Glu Ser Ala Lys
 325 330 335
Asp Gln Lys Ala Ala Asn Pro Tyr Val Thr Pro Asn Asn Arg Tyr Gly
 340 345 350
Tyr Gln Asn Gly Ala Ser Tyr Thr Trp Gln Phe Glu Ala Arg Lys Ala
 355 360 365
Gln Ile Leu Lys Cys Met Glu Cys Gly Ser Ser His Asp Thr Leu Gln
 370 375 380
Gln Leu Thr Ala His Met Met Val Thr Gly His Phe Leu Lys Val Thr
385 390 395 400
Thr Ser Ala Ser Lys Lys Gly Lys Gln Leu Val Leu Asp Pro Val Val
 405 410 415
Glu Glu Lys Ile Gln Ser Ile Pro Leu Pro Pro Thr Thr His Thr Arg
 420 425 430
Leu Pro Ala Ser Ser Ile Lys Lys Gln Pro Asp Ser Pro Ala Gly Ser
 435 440 445
Thr Thr Ser Glu Glu Lys Lys Glu Pro Glu Lys Glu Lys Pro Pro Val
 450 455 460

Ala Gly Asp Ala Glu Lys Ile Lys Glu Glu Ser Glu Asp Ser Leu Glu
465 470 475 480
Lys Phe Glu Pro Ser Thr Leu Tyr Pro Tyr Leu Arg Glu Glu Asp Leu
485 490 495
Asp Asp Ser Pro Lys Gly Gly Leu Asp Ile Leu Lys Ser Leu Glu Asn
500 505 510
Thr Val Ser Thr Ala Ile Ser Lys Ala Gln Asn Gly Ala Pro Ser Trp
515 520 525
Gly Gly Tyr Pro Ser Ile His Ala Ala Tyr Gln Leu Pro Gly Thr Val
530 535 540
Lys Pro Leu Pro Ala Ala Val Gln Ser Val Gln Val Gln Pro Ser Tyr
545 550 555 560
Ala Gly Gly Val Lys Ser Leu Ser Ser Ala Glu His Asn Ala Leu Leu
565 570 575
His Ser Pro Gly Ser Leu Thr Pro Pro Pro His Lys Ser Asn Val Ser
580 585 590
Ala Met Glu Glu Leu Val Glu Lys Val Thr Gly Lys Val Asn Ile Lys
595 600 605
Lys Glu Glu Arg Pro Pro Glu Lys Glu Lys Ser Ser Leu Ala Lys Ala
610 615 620
Ala Ser Pro Ile Ala Lys Glu Asn Lys Asp Phe Pro Lys Thr Glu Glu
625 630 635 640
Val Ser Gly Lys Pro Gln Lys Lys Gly Pro Glu Ala Glu Thr Gly Lys
645 650 655
Ala Lys Lys Glu Gly Pro Leu Asp Val His Thr Pro Asn Gly Thr Glu
660 665 670
Pro Leu Lys Ala Lys Val Thr Asn Gly Cys Asn Asn Leu Gly Ile Ile
675 680 685
Met Asp Arg Ser Pro Glu Pro Ser Phe Ile Asn Pro Leu Ser Ala Leu

690 695 700
Gln Ser Ile Met Asn Thr His Leu Gly Lys Val Ser Lys Pro Val Ser
705 710 715 720
Pro Ser Leu Asp Pro Leu Ala Met Leu Tyr Lys Ile Ser Asn Ser Met
725 730 735
Leu Asp Lys Pro Val Tyr Pro Ala Thr Pro Val Lys Gln Ala Asp Ala
740 745 750
Ile Asp Arg Tyr Tyr Tyr Glu Asn Ser Asp Gln Pro Ile Asp Leu Thr
755 760 765
Lys Ser Lys Asn Lys Pro Leu Val Ser Ser Val Ala Asp Ser Val Ala
770 775 780
Ser Pro Leu Arg Glu Ser Ala Leu Met Asp Ile Ser Asp Met Val Lys
785 790 795 800
Asn Leu Thr Gly Arg Leu Thr Pro Lys Ser Ser Thr Pro Ser Thr Val
805 810 815
Ser Glu Lys Ser Asp Ala Asp Gly Ser Ser Phe Glu Glu Ala Leu Asp
820 825 830
Glu Leu Ser Pro Val His Lys Arg Glu Gly Arg Gln Ser Asn Trp Asn
835 840 845
Pro Gln His Leu Leu Ile Leu Gln Ala Gln Phe Ala Ser Ser Leu Arg
850 855 860
Glu Thr Thr Glu Gly Lys Tyr Ile Met Ser Asp Leu Gly Pro Gln Glu
865 870 875 880
Arg Val His Ile Ser Lys Phe Thr Gly Leu Ser Met Thr Thr Ile Ser
885 890 895
His Trp Leu Ala Asn Val Lys Tyr Gln Leu Arg Arg Thr Gly Gly Thr
900 905 910
Lys Phe Leu Lys Asn Leu Asp Thr Gly His Pro Val Phe Phe Cys Asn
915 920 925

Asp Cys Ala Ser Gln Phe Arg Thr Ala Ser Thr Tyr Ile Ser His Leu
 930 935 940
 Glu Thr His Leu Gly Phe Ser Leu Lys Asp Leu Ser Lys Leu Pro Leu
 945 950 955 960
 Asn Gln Ile Gln Glu Gln Gln Asn Val Ser Lys Val Leu Thr Asn Lys
 965 970 975
 Thr Leu Gly Pro Leu Gly Ala Thr Glu Glu Asp Leu Gly Ser Thr Phe
 980 985 990
 Gln Cys Lys Leu Cys Asn Arg Thr Phe Ala Ser Lys His Ala Val Lys
 995 1000 1005
 Leu His Leu Ser Lys Thr His Gly Lys Ser Pro Glu Asp His Leu Ile
 1010 1015 1020
 Tyr Val Thr Glu Leu Glu Lys Gln
 1025 1030

<210> 2396

<211> 1299

<212> PRT

<213> Homo sapiens

<400> 2396

Met Ser Leu Gln Glu Met Phe Arg Phe Pro Met Gly Leu Leu Leu Gly
 1 5 10 15
 Ser Val Leu Leu Val Ala Ser Ala Pro Ala Thr Leu Glu Pro Pro Gly
 20 25 30
 Cys Ser Asn Lys Glu Gln Gln Val Thr Val Ser His Thr Tyr Lys Ile
 35 40 45
 Asp Val Pro Lys Ser Ala Leu Val Gln Val Asp Ala Asp Pro Gln Pro

50	55	60
Leu Ser Asp Asp Gly Ala Ser Leu Leu Ala Leu Gly Glu Ala Gly Glu		
65	70	75
Glu Gln Asn Ile Ile Phe Arg His Asn Ile Arg Leu Gln Thr Pro Gln		
85	90	95
Lys Asp Cys Glu Leu Ala Gly Ser Val Gln Asp Leu Leu Ala Arg Val		
100	105	110
Lys Lys Leu Glu Glu Glu Met Val Glu Met Lys Glu Gln Cys Ser Ala		
115	120	125
Gln Arg Cys Cys Gln Gly Val Thr Asp Leu Ser Arg His Cys Ser Gly		
130	135	140
His Gly Thr Phe Ser Leu Glu Thr Cys Ser Cys His Cys Glu Glu Gly		
145	150	155
Arg Glu Gly Pro Ala Cys Glu Arg Leu Ala Cys Pro Gly Ala Cys Ser		
165	170	175
Gly His Gly Arg Cys Val Asp Gly Arg Cys Leu Cys His Glu Pro Tyr		
180	185	190
Val Gly Ala Asp Cys Gly Tyr Pro Ala Cys Pro Glu Asn Cys Ser Gly		
195	200	205
His Gly Glu Cys Val Arg Gly Val Cys Gln Cys His Glu Asp Phe Met		
210	215	220
Ser Glu Asp Cys Ser Glu Lys Arg Cys Pro Gly Asp Cys Ser Gly His		
225	230	235
Gly Phe Cys Asp Thr Gly Glu Cys Tyr Cys Glu Glu Gly Phe Thr Gly		
245	250	255
Leu Asp Cys Ala Gln Val Val Thr Pro Gln Gly Leu Gln Leu Leu Lys		
260	265	270
Asn Thr Glu Asp Ser Leu Leu Val Ser Trp Glu Pro Ser Ser Gln Val		
275	280	285

Asp His Tyr Leu Leu Ser Tyr Tyr Pro Leu Gly Lys Glu Leu Ser Gly
290 295 300
Lys Gln Ile Gln Val Pro Lys Glu Gln His Ser Tyr Glu Ile Leu Gly
305 310 315 320
Leu Leu Pro Gly Thr Lys Tyr Ile Val Thr Leu Arg Asn Val Lys Asn
325 330 335
Glu Val Ser Ser Ser Pro Gln His Leu Leu Ala Thr Thr Asp Leu Ala
340 345 350
Val Leu Gly Thr Ala Trp Val Thr Asp Glu Thr Glu Asn Ser Leu Asp
355 360 365
Val Glu Trp Glu Asn Pro Ser Thr Glu Val Asp Tyr Tyr Lys Leu Arg
370 375 380
Tyr Gly Pro Met Thr Gly Gln Glu Val Ala Glu Val Thr Val Pro Lys
385 390 395 400
Ser Ser Asp Pro Lys Ser Arg Tyr Asp Ile Thr Gly Leu His Pro Gly
405 410 415
Thr Glu Tyr Lys Ile Thr Val Val Pro Met Arg Gly Glu Leu Glu Gly
420 425 430
Lys Pro Ile Leu Leu Asn Gly Arg Thr Glu Ile Asp Ser Pro Thr Asn
435 440 445
Val Val Thr Asp Arg Val Thr Glu Asp Thr Ala Thr Val Ser Trp Asp
450 455 460
Pro Val Gln Ala Val Ile Asp Lys Tyr Val Val Arg Tyr Thr Ser Ala
465 470 475 480
Asp Gly Asp Thr Lys Glu Met Ala Val His Lys Asp Glu Ser Ser Thr
485 490 495
Val Leu Thr Gly Leu Lys Pro Gly Glu Ala Tyr Lys Val Tyr Val Trp
500 505 510
Ala Glu Arg Gly Asn Gln Gly Ser Lys Lys Ala Asp Thr Asn Ala Leu

515 520 525
Thr Glu Ile Asp Ser Pro Ala Asn Leu Val Thr Asp Arg Val Thr Glu
530 535 540
Asn Thr Ala Thr Ile Ser Trp Asp Pro Val Gln Ala Thr Ile Asp Lys
545 550 555 560
Tyr Val Val Arg Tyr Thr Ser Ala Asp Asp Gln Glu Thr Arg Glu Val
565 570 575
Leu Val Gly Lys Glu Gln Ser Ser Thr Val Leu Thr Gly Leu Arg Pro
580 585 590
Gly Val Glu Tyr Thr Val His Val Trp Ala Gln Lys Gly Asp Arg Glu
595 600 605
Ser Lys Lys Ala Asp Thr Asn Ala Pro Thr Asp Ile Asp Ser Pro Lys
610 615 620
Asn Leu Val Thr Asp Arg Val Thr Glu Asn Met Ala Thr Val Ser Trp
625 630 635 640
Asp Pro Val Gln Ala Ala Ile Asp Lys Tyr Val Val Arg Tyr Thr Ser
645 650 655
Ala Gly Gly Glu Thr Arg Glu Val Pro Val Gly Lys Glu Gln Ser Ser
660 665 670
Thr Val Leu Thr Gly Leu Arg Pro Gly Met Glu Tyr Met Val His Val
675 680 685
Trp Ala Gln Lys Gly Asp Gln Glu Ser Lys Lys Ala Asp Thr Lys Ala
690 695 700
Gln Thr Asp Ile Asp Ser Pro Gln Asn Leu Val Thr Asp Arg Val Thr
705 710 715 720
Glu Asn Met Ala Thr Val Ser Trp Asp Pro Val Arg Ala Thr Ile Asp
725 730 735
Arg Tyr Val Val Arg Tyr Thr Ser Ala Lys Asp Gly Glu Thr Arg Glu
740 745 750

Val Pro Val Gly Lys Glu Gln Ser Ser Thr Val Leu Thr Gly Leu Arg
755 760 765

Pro Gly Val Glu Tyr Thr Val His Val Trp Ala Gln Lys Gly Ala Gln
770 775 780

Glu Ser Lys Lys Ala Asp Thr Lys Ala Gln Thr Asp Ile Asp Ser Pro
785 790 795 800

Gln Asn Leu Val Thr Asp Arg Val Thr Glu Asn Thr Ala Thr Val Ser
805 810 815

Trp Asp Pro Val Gln Ala Thr Ile Asp Arg Tyr Val Val His Tyr Thr
820 825 830

Ser Ala Asn Gly Glu Thr Arg Glu Val Pro Val Gly Lys Glu Gln Ser
835 840 845

Ser Thr Val Leu Thr Gly Leu Arg Pro Gly Met Glu Tyr Thr Val His
850 855 860

Val Trp Ala Gln Lys Gly Asn Gln Glu Ser Lys Lys Ala Asp Thr Lys
865 870 875 880

Ala Gln Thr Glu Ile Asp Gly Pro Lys Asn Leu Val Thr Asp Trp Val
885 890 895

Thr Glu Asn Met Ala Thr Val Ser Trp Asp Pro Val Gln Ala Thr Ile
900 905 910

Asp Lys Tyr Met Val Arg Tyr Thr Ser Ala Asp Gly Glu Thr Arg Glu
915 920 925

Val Pro Val Gly Lys Glu His Ser Ser Thr Val Leu Thr Gly Leu Arg
930 935 940

Pro Gly Met Glu Tyr Met Val His Val Trp Ala Gln Lys Gly Ala Gln
945 950 955 960

Glu Ser Lys Lys Ala Asp Thr Lys Ala Gln Thr Glu Leu Asp Pro Pro
965 970 975

Arg Asn Leu Arg Pro Ser Ala Val Thr Gln Ser Gly Gly Ile Leu Thr

980	985	990
Trp Thr Pro Pro Ser Ala Gln Ile His Gly Tyr Ile Leu Thr Tyr Gln		
995	1000	1005
Phe Pro Asp Gly Thr Val Lys Glu Met Gln Leu Gly Arg Glu Asp Gln		
1010	1015	1020
Arg Phe Ala Leu Gln Gly Leu Glu Gln Gly Ala Thr Tyr Pro Val Ser		
1025	1030	1035
1040		1045
Leu Val Ala Phe Lys Gly Gly Arg Arg Ser Arg Asn Val Ser Thr Thr		
	1045	1050
		1055
Leu Ser Thr Val Gly Ala Arg Phe Pro His Pro Ser Asp Cys Ser Gln		
	1060	1065
		1070
Val Gln Gln Asn Ser Asn Ala Ala Ser Gly Leu Tyr Thr Ile Tyr Leu		
	1075	1080
		1085
His Gly Asp Ala Ser Arg Pro Leu Gln Val Tyr Cys Asp Met Glu Thr		
	1090	1095
		1100
Asp Gly Gly Gly Trp Ile Val Phe Gln Arg Arg Asn Thr Gly Gln Leu		
	1105	1110
		1115
		1120
Asp Phe Phe Lys Arg Trp Arg Ser Tyr Val Glu Gly Phe Gly Asp Pro		
	1125	1130
		1135
Met Lys Glu Phe Trp Leu Gly Leu Asp Lys Leu His Asn Leu Thr Thr		
	1140	1145
		1150
Gly Thr Pro Ala Arg Tyr Glu Val Arg Val Asp Leu Gln Thr Ala Asn		
	1155	1160
		1165
Glu Ser Ala Tyr Ala Ile Tyr Asp Phe Phe Gln Val Ala Ser Ser Lys		
	1170	1175
		1180
Glu Arg Tyr Lys Leu Thr Val Gly Lys Tyr Arg Gly Thr Ala Gly Asp		
	1185	1190
		1195
		1200
Ala Leu Thr Tyr His Asn Gly Trp Lys Phe Thr Thr Phe Asp Arg Asp		
	1205	1210
		1215

Asn Asp Ile Ala Leu Ser Asn Cys Ala Leu Thr His His Gly Gly Trp
 1220 1225 1230
 Trp Tyr Lys Asn Cys His Leu Ala Asn Pro Asn Gly Arg Tyr Gly Glu
 1235 1240 1245
 Thr Lys His Ser Glu Gly Val Asn Trp Glu Pro Trp Lys Gly His Glu
 1250 1255 1260
 Phe Ser Ile Pro Tyr Val Glu Leu Lys Ile Arg Pro His Gly Tyr Ser
 1265 1270 1275 1280
 Arg Glu Pro Val Leu Gly Arg Lys Lys Arg Thr Leu Arg Gly Arg Leu
 1285 1290 1295
 Arg Thr Phe

<210> 2397

<211> 1173

<212> PRT

<213> Homo sapiens

<400> 2397

Met Val Thr Val Gly Thr Asn Ile Leu Pro Ser Arg Pro Ala Ala Ser
 1 5 10 15
 Ala Asn Thr Ala Arg Glu Asp Ala Ala Leu Phe Ser Arg Arg Ile Pro
 20 25 30
 Pro Arg His Lys Asn Gly Ala Ala Gln Pro Gly Ala Ala Pro Gly Pro
 35 40 45
 Gly Ala Pro Gly Ala Asn Met Gly Asn Ala His Ser Lys Ser Gly Asp
 50 55 60
 Arg His Ser Ala Leu Pro Gly Arg Pro Glu Leu Ser Phe Tyr Gly Ser

65	70	75	80
Phe Pro Arg Lys Trp Ser Glu Asn Val Phe Leu Asp Asn Glu Leu Leu			
	85	90	95
Thr Ser Lys Ile Leu Ser Met Leu Arg Pro Gln Ser Glu Arg Gly Phe			
	100	105	110
Arg Ala Gly Asp Leu Arg Tyr Pro Thr His Phe Leu Ser Thr Asn Ser			
	115	120	125
Val Leu Ala Ser Val Thr Ala Ser Leu Lys Glu His Pro Arg Gly Thr			
	130	135	140
Leu Leu Ser Asp Gly Ser Pro Ala Leu Ser Arg Asn Val Gly Met Thr			
	145	150	155
Val Ser Gln Lys Gly Gly Pro Gln Pro Thr Pro Ser Pro Ala Gly Pro			
	165	170	175
Gly Thr Gln Leu Gly Pro Val Thr Gly Glu Met Asp Glu Ala Asp Ser			
	180	185	190
Ala Phe Leu Lys Phe Lys Gln Thr Ala Asp Asp Ser Leu Ser Leu Thr			
	195	200	205
Ser Pro Asn Thr Glu Ser Ile Phe Val Glu Asp Pro Tyr Thr Ala Ser			
	210	215	220
Leu Arg Ser Glu Ile Glu Ser Asp Gly His Glu Phe Glu Ala Glu Ser			
	225	230	235
Trp Ser Leu Ala Val Asp Ala Ala Tyr Ala Lys Lys Gln Lys Arg Glu			
	245	250	255
Val Val Lys Arg Gln Asp Val Leu Tyr Glu Leu Met Gln Thr Glu Val			
	260	265	270
His His Val Arg Thr Leu Lys Ile Met Leu Lys Val Tyr Ser Arg Ala			
	275	280	285
Leu Gln Glu Glu Leu Gln Phe Ser Ser Lys Ala Ile Gly Arg Leu Phe			
	290	295	300

Pro Cys Ala Asp Asp Leu Leu Glu Thr His Ser His Phe Leu Ala Arg
 305 310 315 320
 Leu Lys Glu Arg Arg Gln Glu Ser Leu Glu Glu Gly Ser Asp Arg Asn
 325 330 335
 Tyr Val Ile Gln Lys Ile Gly Asp Leu Leu Val Gln Gln Phe Ser Gly
 340 345 350
 Glu Asn Gly Glu Arg Met Lys Glu Lys Tyr Gly Val Phe Cys Ser Gly
 355 360 365
 His Asn Glu Ala Val Ser His Tyr Lys Leu Leu Leu Gln Gln Asn Lys
 370 375 380
 Lys Phe Gln Asn Leu Ile Lys Lys Ile Gly Asn Phe Ser Ile Val Arg
 385 390 395 400
 Arg Leu Gly Val Gln Glu Cys Ile Leu Leu Val Thr Gln Arg Ile Thr
 405 410 415
 Lys Tyr Pro Val Leu Val Glu Arg Ile Ile Gln Asn Thr Glu Ala Gly
 420 425 430
 Thr Glu Asp Tyr Glu Asp Leu Thr Gln Ala Leu Asn Leu Ile Lys Asp
 435 440 445
 Ile Ile Ser Gln Val Asp Ala Lys Val Ser Glu Cys Glu Lys Gly Gln
 450 455 460
 Arg Leu Arg Glu Ile Ala Gly Lys Met Asp Leu Lys Ser Ser Ser Lys
 465 470 475 480
 Leu Lys Asn Gly Leu Thr Phe Arg Lys Glu Asp Met Leu Gln Arg Gln
 485 490 495
 Leu His Leu Glu Gly Met Leu Cys Trp Lys Thr Thr Ser Gly Arg Leu
 500 505 510
 Lys Asp Ile Leu Ala Ile Leu Leu Thr Asp Val Leu Leu Leu Leu Gln
 515 520 525
 Glu Lys Asp Gln Lys Tyr Val Phe Ala Ser Val Asp Ser Lys Pro Pro

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Asp Ile Pro Gly Ser Ser Glu Glu Ser Pro Gln Val Val Glu Ala Pro
 770 775 780
 Gly Thr Glu Ser Asp Pro Arg Leu Pro Thr Val Leu Glu Ser Glu Leu
 785 790 795 800
 Val Gln Arg Ile Gln Thr Leu Ser Gln Leu Leu Leu Asn Leu Gln Ala
 805 810 815
 Val Ile Ala His Gln Asp Ser Tyr Val Glu Thr Gln Arg Ala Ala Ile
 820 825 830
 Gln Glu Arg Glu Lys Gln Phe Arg Leu Gln Ser Thr Arg Gly Asn Leu
 835 840 845
 Leu Leu Glu Gln Glu Arg Gln Arg Asn Phe Glu Lys Gln Arg Glu Glu
 850 855 860
 Arg Ala Ala Leu Glu Lys Leu Gln Ser Gln Leu Arg His Glu Gln Gln
 865 870 875 880
 Arg Trp Glu Arg Glu Arg Gln Trp Gln His Gln Glu Leu Glu Arg Ala
 885 890 895
 Gly Ala Arg Leu Gln Glu Arg Glu Gly Glu Ala Arg Gln Leu Arg Glu
 900 905 910
 Arg Leu Glu Gln Glu Arg Ala Glu Leu Glu Arg Gln Arg Gln Ala Tyr
 915 920 925
 Gln His Asp Leu Glu Arg Leu Arg Glu Ala Gln Arg Ala Val Glu Arg
 930 935 940
 Glu Arg Glu Arg Leu Glu Leu Leu Arg Arg Leu Lys Lys Gln Asn Thr
 945 950 955 960
 Ala Pro Gly Ala Leu Pro Pro Asp Thr Leu Ala Glu Ala Gln Pro Pro
 965 970 975
 Ser His Pro Pro Ser Phe Asn Gly Glu Gly Leu Glu Gly Pro Arg Val
 980 985 990
 Ser Met Leu Pro Ser Gly Val Gly Pro Glu Tyr Ala Glu Arg Pro Glu

995 1000 1005
Val Ala Arg Arg Asp Ser Ala Pro Thr Glu Asn Arg Leu Ala Lys Ser
1010 1015 1020
Asp Val Pro Ile Gln Leu Leu Ser Ala Thr Asn Gln Phe Gln Arg Gln
1025 1030 1035 1040
Ala Ala Val Gln Gln Gln Ile Pro Thr Lys Leu Ala Ala Ser Thr Lys
1045 1050 1055
Gly Gly Lys Asp Lys Gly Gly Lys Ser Arg Gly Ser Gln Arg Trp Glu
1060 1065 1070
Ser Ser Ala Ser Phe Asp Leu Lys Gln Gln Leu Leu Leu Asn Lys Leu
1075 1080 1085
Met Gly Lys Asp Glu Ser Thr Ser Arg Asn Arg Arg Ser Leu Ser Pro
1090 1095 1100
Ile Leu Ser Gly Arg His Ser Pro Ala Pro Pro Pro Asp Pro Gly Phe
1105 1110 1115 1120
Pro Ala Pro Ser Pro Pro Pro Ala Asp Ser Pro Ser Glu Gly Phe Ser
1125 1130 1135
Leu Lys Ala Gly Gly Thr Ala Leu Leu Pro Gly Pro Pro Ala Pro Ser
1140 1145 1150
Pro Leu Pro Ala Thr Pro Leu Ser Ala Lys Glu Asp Ala Ser Lys Glu
1155 1160 1165
Asp Val Ile Phe Phe
1170

<210> 2398

<211> 1225

<212> PRT

<213> Homo sapiens

<400> 2398

Met Arg Gly Pro Val Gly Thr Glu Glu Glu Leu Pro Arg Leu Phe Ala
 1 5 10 15
 Glu Glu Met Glu Asn Glu Asp Glu Met Ser Glu Glu Glu Asp Gly Gly
 20 25 30
 Leu Glu Ala Phe Asp Asp Phe Phe Pro Val Glu Pro Val Ser Leu Pro
 35 40 45
 Lys Lys Lys Lys Pro Lys Lys Leu Lys Glu Asn Lys Cys Lys Gly Lys
 50 55 60
 Arg Lys Lys Lys Glu Gly Ser Asn Asp Glu Leu Ser Glu Asn Glu Glu
 65 70 75 80
 Asp Leu Glu Glu Lys Ser Glu Ser Glu Gly Ser Asp Tyr Ser Pro Asn
 85 90 95
 Lys Lys Lys Lys Lys Lys Leu Lys Asp Lys Lys Glu Lys Lys Ala Lys
 100 105 110
 Arg Lys Lys Lys Asp Glu Asp Glu Asp Asp Asn Asp Asp Gly Cys Leu
 115 120 125
 Lys Glu Pro Lys Ser Ser Gly Gln Leu Met Ala Glu Trp Gly Leu Asp
 130 135 140
 Asp Val Asp Tyr Leu Phe Ser Glu Glu Asp Tyr His Thr Leu Thr Asn
 145 150 155 160
 Tyr Lys Ala Phe Ser Gln Phe Leu Arg Pro Leu Ile Ala Lys Lys Asn
 165 170 175
 Pro Lys Ile Pro Met Ser Lys Met Met Thr Val Leu Gly Ala Lys Trp
 180 185 190
 Arg Glu Phe Ser Ala Asn Asn Pro Phe Lys Gly Ser Ser Ala Ala Ala
 195 200 205
 Ala Ala Ala Ala Val Ala Ala Ala Val Glu Thr Val Thr Ile Ser Pro

210 215 220
Pro Leu Ala Val Ser Pro Pro Gln Val Pro Gln Pro Val Pro Ile Arg
225 230 235 240
Lys Ala Lys Thr Lys Glu Gly Lys Gly Pro Gly Val Arg Lys Lys Ile
245 250 255
Lys Gly Ser Lys Asp Gly Lys Lys Lys Gly Lys Gly Lys Lys Thr Ala
260 265 270
Gly Leu Lys Phe Arg Phe Gly Gly Ile Ser Asn Lys Arg Lys Lys Gly
275 280 285
Ser Ser Ser Glu Glu Asp Glu Arg Glu Glu Ser Asp Phe Asp Ser Ala
290 295 300
Ser Ile His Ser Ala Ser Val Arg Ser Glu Cys Ser Ala Ala Leu Gly
305 310 315 320
Lys Lys Ser Lys Arg Arg Arg Lys Lys Lys Arg Ile Asp Asp Gly Asp
325 330 335
Gly Tyr Glu Thr Asp His Gln Asp Tyr Cys Glu Val Cys Gln Gln Gly
340 345 350
Gly Glu Ile Ile Leu Cys Asp Thr Cys Pro Arg Ala Tyr His Leu Val
355 360 365
Cys Leu Asp Pro Glu Leu Glu Lys Ala Pro Glu Gly Lys Trp Ser Cys
370 375 380
Pro His Cys Glu Lys Glu Gly Ile Gln Trp Glu Pro Lys Asp Asp Asp
385 390 395 400
Asp Glu Glu Glu Glu Gly Gly Cys Glu Glu Glu Glu Asp Asp His Met
405 410 415
Glu Phe Cys Arg Val Cys Lys Asp Gly Gly Glu Leu Leu Cys Cys Asp
420 425 430
Ala Cys Pro Ser Ser Tyr His Leu His Cys Leu Asn Pro Pro Leu Pro
435 440 445

Glu Ile Pro Asn Gly Glu Trp Leu Cys Pro Arg Cys Thr Cys Pro Pro
 450 455 460
 Leu Lys Gly Lys Val Gln Arg Ile Leu His Trp Arg Trp Thr Glu Pro
 465 470 475 480
 Pro Ala Pro Phe Met Val Gly Leu Pro Gly Pro Asp Val Glu Pro Ser
 485 490 495
 Leu Pro Pro Pro Lys Pro Leu Glu Gly Ile Pro Glu Arg Glu Phe Phe
 500 505 510
 Val Lys Trp Ala Gly Leu Ser Tyr Trp His Cys Ser Trp Val Lys Glu
 515 520 525
 Leu Gln Leu Glu Leu Tyr His Thr Val Met Tyr Arg Asn Tyr Gln Arg
 530 535 540
 Lys Asn Asp Met Asp Glu Pro Pro Pro Phe Asp Tyr Gly Ser Gly Asp
 545 550 555 560
 Glu Asp Gly Lys Ser Glu Lys Arg Lys Asn Lys Asp Pro Leu Tyr Ala
 565 570 575
 Lys Met Glu Glu Arg Phe Tyr Arg Tyr Gly Ile Lys Pro Glu Trp Met
 580 585 590
 Met Ile His Arg Ile Leu Asn His Ser Phe Asp Lys Lys Gly Asp Val
 595 600 605
 His Tyr Leu Ile Lys Trp Lys Asp Leu Pro Tyr Asp Gln Cys Thr Trp
 610 615 620
 Glu Ile Asp Asp Ile Asp Ile Pro Tyr Tyr Asp Asn Leu Lys Gln Ala
 625 630 635 640
 Tyr Trp Gly His Arg Glu Leu Met Leu Gly Glu Asp Thr Gly Leu Pro
 645 650 655
 Lys Arg Leu Leu Lys Lys Gly Lys Lys Leu Arg Asp Asp Lys Gln Glu
 660 665 670
 Lys Pro Pro Asp Thr Pro Ile Val Asp Pro Thr Val Lys Phe Asp Lys

675 680 685
Gln Pro Trp Tyr Ile Asp Ser Thr Gly Gly Thr Leu His Pro Tyr Gln
690 695 700
Leu Glu Gly Leu Asn Trp Leu Arg Phe Ser Trp Ala Gln Gly Thr Asp
705 710 715 720
Thr Ile Leu Ala Asp Glu Met Gly Leu Gly Lys Thr Val Gln Thr Ile
725 730 735
Val Phe Leu Tyr Ser Leu Tyr Lys Glu Gly His Ser Lys Gly Pro Tyr
740 745 750
Leu Val Ser Ala Pro Leu Ser Thr Ile Ile Asn Trp Glu Arg Glu Phe
755 760 765
Glu Met Trp Ala Pro Asp Phe Tyr Val Val Thr Tyr Thr Gly Asp Lys
770 775 780
Glu Ser Arg Ser Val Ile Arg Glu Asn Glu Phe Ser Phe Glu Asp Asn
785 790 795 800
Ala Ile Arg Ser Gly Lys Lys Val Phe Arg Met Lys Lys Glu Val Gln
805 810 815
Ile Lys Phe His Val Leu Leu Thr Ser Tyr Glu Leu Ile Thr Ile Asp
820 825 830
Gln Ala Ile Leu Gly Ser Ile Glu Trp Ala Cys Leu Val Val Asp Glu
835 840 845
Ala His Arg Leu Lys Asn Asn Gln Ser Lys Phe Phe Arg Val Leu Asn
850 855 860
Ser Tyr Lys Ile Asp Tyr Lys Leu Leu Leu Thr Gly Thr Pro Leu Gln
865 870 875 880
Asn Asn Leu Glu Glu Leu Phe His Leu Leu Asn Phe Leu Thr Pro Glu
885 890 895
Arg Phe Asn Asn Leu Glu Gly Phe Leu Glu Glu Phe Ala Asp Ile Ser
900 905 910

Lys Glu Asp Gln Ile Lys Lys Leu His Asp Leu Leu Gly Pro His Met
915 920 925

Leu Arg Arg Leu Lys Ala Asp Val Phe Lys Asn Met Pro Ala Lys Thr
930 935 940

Glu Leu Ile Val Arg Val Glu Leu Ser Gln Met Gln Lys Lys Tyr Tyr
945 950 955 960

Lys Phe Ile Leu Thr Arg Asn Phe Glu Ala Leu Asn Ser Lys Gly Gly
965 970 975

Gly Asn Gln Val Ser Leu Leu Asn Ile Met Met Asp Leu Lys Lys Cys
980 985 990

Cys Asn His Pro Tyr Leu Phe Pro Val Ala Ala Val Glu Ala Pro Val
995 1000 1005

Leu Pro Asn Gly Ser Tyr Asp Gly Ser Ser Leu Val Lys Ser Ser Gly
1010 1015 1020

Lys Leu Met Leu Leu Gln Lys Met Leu Lys Lys Leu Arg Asp Glu Gly
1025 1030 1035 1040

His Arg Val Leu Ile Phe Ser Gln Met Thr Lys Met Leu Asp Leu Leu
1045 1050 1055

Glu Asp Phe Leu Glu Tyr Glu Gly Tyr Lys Tyr Glu Arg Ile Asp Gly
1060 1065 1070

Gly Ile Thr Gly Gly Leu Arg Gln Glu Ala Ile Asp Arg Phe Asn Ala
1075 1080 1085

Pro Gly Ala Gln Gln Phe Cys Phe Leu Leu Ser Thr Arg Ala Gly Gly
1090 1095 1100

Leu Gly Ile Asn Leu Ala Thr Ala Asp Thr Val Ile Ile Tyr Asp Ser
1105 1110 1115 1120

Asp Trp Asn Pro His Asn Asp Ile Gln Ala Phe Ser Arg Ala His Arg
1125 1130 1135

Ile Gly Gln Thr Lys Trp Lys Pro Ser Trp Ala Thr Trp Met Arg Lys

1140	1145	1150	
Thr Pro Gly His Arg Ser Gln Gly Ser Pro Trp Lys Ser Arg Pro Phe			
1155	1160	1165	
Gln Pro Pro Trp Ile Glu Trp Arg Val Arg Thr Ser Thr Arg Ala Gln			
1170	1175	1180	
Pro Ala Arg Arg Glu Pro Glu Arg Ser Gly Gln Arg Arg Arg Arg Arg			
1185	1190	1195	1200
Pro Arg Pro Pro Arg Ser Ser Cys Arg Glu Arg Arg Cys Phe Leu Arg			
1205	1210	1215	
Arg Arg Arg Ser Trp Thr Ser Trp Ser			
1220	1225		

<210> 2399

<211> 228

<212> PRT

<213> Homo sapiens

<400> 2399

Met Asp Thr Leu His Thr Thr Ser Gly Val Leu Ser Ala Leu Arg Leu			
1	5	10	15
Leu Gly Ile Gln Ser Gln Glu Leu Phe Leu Gly Arg Gln Arg Ser Leu			
20	25	30	
Gln Ala Pro Gly Lys Ala Ser Cys Cys Leu Gly Asp Lys Ala Val Ser			
35	40	45	
Gly Ser Ser Leu His Ala Pro Gln Gly Arg Gly Gly Ala Gln Lys Gln			
50	55	60	
Thr Lys Arg Leu Ser Trp Cys Gln Asp Gly Ala Arg Asp Gln Gly Asp			
65	70	75	80

Val His Met Arg Ser Ala Ser Leu Gly Lys Gly Gln Pro His Arg Gln
 85 90 95
 Ser Gln Ala Val Ala Glu Thr Pro Gly Ile Ser Leu Lys His Gln Arg
 100 105 110
 Pro Glu Leu Lys Lys Gly Pro Ala Pro Ser Gly Pro Arg Pro Gln Trp
 115 120 125
 Gly Thr Phe Gln Gly Gln Ser Pro Pro Ala Ala Leu Pro Ala Gly Pro
 130 135 140
 Gly Ala Gly Gln Gln His Arg Pro Pro Pro Ala Leu Gln Ser Trp Thr
 145 150 155 160
 Ser Met Ala Asp Ser Ser Trp Ala Trp Asn Thr Ala Leu Ser Ser Ser
 165 170 175
 Ser Ala Lys Thr Leu Glu Val Pro Ala Arg Thr Arg Asp Ile Lys Gly
 180 185 190
 Val Ser Pro His Gly Gln Cys Phe His Arg Gly Phe Arg Arg Phe Ile
 195 200 205
 Asn Thr Ser Arg Met Asp Asp Thr Thr Ala Thr Thr Gly Ala Ser Ile
 210 215 220
 Gln Glu Thr Pro
 225

<210> 2400

<211> 929

<212> PRT

<213> Homo sapiens

<400> 2400

Met Leu Gly Pro His Leu Pro Pro Pro Pro Leu Ala Pro Ser Glu Gly

1	5	10	15
Arg Pro Thr Pro Cys Ala Phe Gln Ile Pro Asp Gly Ser Tyr Arg Cys			
20	25	30	
Leu Ala Leu Glu Ala Glu Glu Ser Ser Gly Glu Glu Gly Leu Gln Gly			
35	40	45	
Glu Val Gly Pro Thr Asp Leu Glu Glu Asp Glu Gly Val Ser Arg Ser			
50	55	60	
Gly Asp Asp Ser Ala Cys Arg Val Thr Gln Gly Thr Pro Gln Leu Pro			
65	70	75	80
Lys Ala Leu Gly Ile Gln Pro Pro Ser Cys Ser Arg Glu Glu Gln Gly			
85	90	95	
Ala Ser Gln His Asp Asp Arg Ala Ser Gln Asp Trp Asp Val Val Lys			
100	105	110	
Ala Gly Gln Met Met Thr Ala Ser Pro Ser Pro Gly Pro Gly Pro Arg			
115	120	125	
Val Ala Gln Lys Pro Ala Leu Gly Arg Ser Thr Ser Leu Thr Glu Lys			
130	135	140	
Asp Leu Lys Glu Ala Lys Ala Arg Ser Gln Gln Ile Ala Ala Gln Leu			
145	150	155	160
Thr Thr Pro Pro Ser Ser Asn Ser Arg Gly Val Gln Leu Phe Asn Arg			
165	170	175	
Arg Arg Gln Arg Val Asn Glu Phe Thr Leu Glu Ser His Gly Gln Arg			
180	185	190	
Gly Gln Lys Pro Ser Gln Glu Ser Leu Arg Val Leu Pro Ser Ser Leu			
195	200	205	
Pro Gly His Ala Pro Gly Leu Ser Leu Ser Ser Thr Ser Leu Pro Glu			
210	215	220	
Pro Gly Pro Pro Arg His Pro Ser Pro Gln Ser Pro Asp Arg Gly Val			
225	230	235	240

Pro Gly His Ser Met Glu Gly Tyr Ser Glu Glu Ala Ser Leu Leu Arg
 245 250 255
 His Leu Glu Lys Val Ala Ser Glu Glu Glu Glu Val Pro Leu Val Val
 260 265 270
 Tyr Leu Lys Glu Asn Ala Ala Leu Leu Thr Ala Asn Gly Leu His Leu
 275 280 285
 Ser Gln Asn Arg Glu Ala Gln Gln Ser Ser Pro Ala Pro Pro Pro Ala
 290 295 300
 Glu Val His Ser Pro Ala Ala Asp Val Asn Gln Asn Leu Ala Ser Pro
 305 310 315 320
 Ser Ala Thr Leu Thr Thr Pro Thr Ser Asn Ser Ser His Asn Pro Pro
 325 330 335
 Ala Thr Asp Val Asn Gln Asn Pro Pro Ala Thr Val Val Pro Gln Ser
 340 345 350
 Leu Pro Leu Ser Ser Ile Gln Gln Asn Ser Ser Glu Ala Gln Leu Pro
 355 360 365
 Ser Asn Gly Thr Gly Pro Ala Ser Lys Pro Ser Thr Leu Cys Ala Asp
 370 375 380
 Gly Gln Pro Gln Ala Pro Ala Glu Glu Val Arg Cys Ser Thr Leu Leu
 385 390 395 400
 Ile Asp Lys Val Ser Thr Pro Ala Thr Thr Thr Ser Thr Phe Ser Arg
 405 410 415
 Gly Ala Thr Leu Ile Pro Ser Ser Arg Pro Pro Ala Ser Asp Phe Met
 420 425 430
 Ser Ser Ser Leu Leu Ile Asp Ile Gln Pro Asn Thr Leu Val Val Ser
 435 440 445
 Ala Asp Gln Glu Met Ser Gly Arg Ala Ala Ala Thr Thr Pro Thr Lys
 450 455 460
 Val Tyr Ser Glu Val His Phe Thr Leu Ala Lys Pro Pro Ser Val Val

465 470 475 480
Asn Arg Thr Ala Arg Pro Phe Gly Ile Gln Ala Pro Gly Gly Thr Ser
 485 490 495
Gln Met Glu Arg Ser Pro Met Leu Glu Arg Arg His Phe Gly Glu Lys
 500 505 510
Ala Pro Ala Pro Gln Pro Pro Ser Leu Pro Asp Arg Ser Pro Arg Pro
 515 520 525
Gln Arg His Ile Met Ser Arg Ser Pro Met Val Glu Arg Arg Met Met
 530 535 540
Gly Gln Arg Ser Pro Ala Ser Glu Arg Arg Pro Leu Gly Asn Phe Thr
545 550 555 560
Ala Pro Pro Thr Tyr Thr Glu Thr Leu Ser Thr Ala Pro Leu Ala Ser
 565 570 575
Trp Val Arg Ser Pro Pro Ser Tyr Ser Val Leu Tyr Pro Ser Ser Asp
 580 585 590
Pro Lys Ser Ser His Leu Lys Gly Gln Ala Val Pro Ala Ser Lys Thr
 595 600 605
Gly Ile Leu Glu Glu Ser Met Ala Arg Arg Gly Ser Arg Lys Ser Met
610 615 620
Phe Thr Phe Val Glu Lys Pro Lys Val Thr Pro Asn Pro Asp Leu Leu
625 630 635 640
Asp Leu Val Gln Thr Ala Asp Glu Lys Arg Arg Gln Arg Asp Gln Gly
 645 650 655
Glu Val Gly Val Glu Glu Glu Pro Phe Ala Leu Gly Ala Glu Ala Ser
 660 665 670
Asn Phe Gln Gln Glu Pro Ala Pro Arg Asp Arg Ala Ser Pro Ala Ala
 675 680 685
Ala Glu Glu Val Val Pro Glu Trp Ala Ser Cys Leu Lys Ser Pro Arg
690 695 700

Ile Gln Ala Lys Pro Lys Pro Lys Pro Asn Gln Asn Leu Ser Glu Ala
705 710 715 720
Ser Gly Lys Gly Ala Glu Leu Tyr Ala Arg Arg Gln Ser Arg Met Glu
725 730 735
Lys Tyr Val Ile Glu Ser Ser Ser His Thr Pro Glu Leu Ala Arg Cys
740 745 750
Pro Ser Pro Thr Met Ser Leu Pro Ser Ser Trp Lys Tyr Pro Thr Asn
755 760 765
Ala Pro Gly Ala Phe Arg Val Ala Ser Arg Ser Pro Ala Arg Thr Pro
770 775 780
Pro Ala Ser Leu Tyr His Gly Tyr Leu Pro Glu Asn Gly Val Leu Arg
785 790 795 800
Pro Glu Pro Thr Lys Gln Pro Pro Tyr Gln Leu Arg Pro Ser Leu Phe
805 810 815
Val Leu Ser Pro Ile Lys Glu Pro Ala Lys Val Ser Pro Arg Ala Ala
820 825 830
Ser Pro Ala Arg Pro Ser Ser Leu Asp Leu Val Pro Asn Leu Pro Lys
835 840 845
Gly Ala Leu Pro Pro Ser Pro Ala Leu Pro Arg Pro Ser Arg Ser Ser
850 855 860
Pro Gly Leu Tyr Thr Ser Pro Gly Gln Asp Ser Leu Gln Pro Thr Ala
865 870 875 880
Val Ser Pro Pro Tyr Gly Gly Asp Ile Ser Pro Val Ser Pro Ser Arg
885 890 895
Ala Trp Ser Pro Arg Ala Lys Gln Ala Pro Arg Pro Ser Phe Ser Thr
900 905 910
Arg Asn Ala Gly Ile Glu Ala Gln Val Trp Lys Pro Ser Phe Cys Phe
915 920 925
Lys

<210> 2401

<211> 410

<212> PRT

<213> Homo sapiens

<400> 2401

Met Ala Asn Leu Gly His Leu Ser Leu Lys Ser Trp Ala Gln His Pro

1 5 10 15

Ala Arg Asn Tyr Leu Leu Gln Ala Val Arg Leu Tyr Cys Glu Leu Gln

20 25 30

Ala Ser Lys Glu Thr Asp Met Glu Leu Val Gln Val Phe Leu Trp Leu

35 40 45

Ala Gln Val Leu Val Ser Gly His Gln Leu Thr His Gly Leu Leu Cys

50 55 60

Tyr Glu Met Ala Leu Leu Phe Gly Leu Arg His Arg His Leu Lys Ser

65 70 75 80

Gln Leu Gln Ala Thr Lys Ser Leu Cys His Phe Tyr Ser Ser Val Ser

85 90 95

Pro Asn Pro Glu Ala Cys Ile Thr Tyr His Glu His Trp Leu Ala Leu

100 105 110

Ala Gln Gln Leu Arg Asp Arg Glu Met Glu Gly Arg Leu Leu Glu Ser

115 120 125

Leu Gly Gln Leu Tyr Arg Asn Leu Asn Thr Ala Arg Ser Leu Arg Arg

130 135 140

Ser Leu Thr Cys Ile Lys Glu Ser Leu Arg Ile Phe Ile Asp Leu Gly

145 150 155 160

Glu Thr Asp Lys Ala Ala Glu Ala Trp Leu Gly Ala Gly Arg Leu His
165 170 175
Tyr Leu Met Gln Glu Asp Glu Leu Val Glu Leu Cys Leu Gln Ala Ala
180 185 190
Ile Gln Thr Ala Leu Lys Ser Glu Glu Pro Leu Leu Ala Leu Lys Leu
195 200 205
Tyr Glu Glu Ala Gly Asp Val Phe Phe Asn Gly Thr Arg His Arg His
210 215 220
His Ala Val Glu Tyr Tyr Arg Ala Gly Ala Val Pro Leu Ala Arg Arg
225 230 235 240
Leu Lys Ala Val Arg Thr Glu Leu Arg Ile Phe Asn Lys Leu Thr Glu
245 250 255
Leu Gln Ile Ser Leu Glu Gly Tyr Glu Lys Ala Leu Glu Phe Ala Thr
260 265 270
Leu Ala Ala Arg Leu Ser Thr Val Thr Gly Asp Gln Arg Gln Glu Leu
275 280 285
Val Ala Phe His Arg Leu Ala Thr Val Tyr Tyr Ser Leu His Met Tyr
290 295 300
Glu Met Ala Glu Asp Cys Tyr Leu Lys Thr Leu Ser Leu Cys Pro Pro
305 310 315 320
Trp Leu Gln Ser Pro Lys Glu Ala Leu Tyr Tyr Ala Lys Val Tyr Tyr
325 330 335
Arg Leu Gly Arg Leu Thr Phe Cys Gln Leu Lys Asp Ala His Asp Ala
340 345 350
Thr Glu Tyr Phe Leu Leu Ala Leu Ala Ala Val Leu Leu Gly Asp
355 360 365
Glu Glu Leu Gln Asp Thr Ile Arg Ser Arg Leu Asp Asn Ile Cys Gln
370 375 380
Ser Pro Leu Trp His Ser Arg Pro Ser Gly Cys Ser Ser Glu Arg Ala

385 390 395 400
Arg Trp Leu Ser Gly Gly Gly Leu Ala Leu
 405 410

<210> 2402

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2402

Met Ala Cys Gly Val Glu Ser Met Ser Leu Ala Asp Arg Gly Asn Pro
1 5 10 15
Gly Asn Ile Thr Ser Arg Leu Met Glu Lys Glu Lys Ala Arg Asp Cys
 20 25 30
Leu Ile Pro Met Gly Ile Thr Ser Glu Asn Val Ala Glu Arg Phe Gly
 35 40 45
Ile Ser Arg Glu Lys Gln Asp Thr Phe Ala Leu Ala Ser Gln Gln Lys
 50 55 60
Ala Ala Arg Ala Gln Ser Lys Gly Cys Phe Gln Ala Glu Ile Val Pro
65 70 75 80
Val Thr Thr Thr Val His Asp Asp Lys Gly Thr Lys Arg Ser Ile Thr
 85 90 95
Val Thr Gln Asp Glu Gly Ile Arg Pro Ser Thr Thr Met Glu Gly Leu
 100 105 110
Ala Lys Leu Lys Pro Ala Phe Lys Lys Asp Gly Ser Thr Thr Ala Gly
 115 120 125
Glu Thr Gly Pro Gly
130

<210> 2403

<211> 126

<212> PRT

<213> Homo sapiens

<400> 2403

Met Trp Arg Arg His Ser Gly Ser Pro Gln Ser Leu Asn Val Pro Ala

1 5 10 15

Leu Val Gln Gly Leu Val Leu Arg Ser Asp Leu Ala Val Ser Gly Thr

20 25 30

Gly Thr Gln Gly Cys Pro Ala Ile Pro Pro Pro Gly Ala Glu Glu Leu

35 40 45

Ser Pro Ala Ala Ala Ala Ala Gln Ser Pro Arg Trp Ser Leu Gly Arg

50 55 60

Gln Ala Gln Cys Ser Gln Leu Ile Thr Arg His Ser Val Leu Arg Leu

65 70 75 80

Ile Ser Leu Asp Leu Phe Leu Ser Glu Lys Val Leu Phe Pro Leu Gly

85 90 95

Cys Val Gly Cys Ser Gly Ser Ala Asn Ser Ser Ile Trp Val Leu Ser

100 105 110

Glu Tyr Glu Ile Leu Lys Cys Gly Lys Lys Lys Thr Asn Phe

115 120 125

<210> 2404

<211> 165

<212> PRT

<213> Homo sapiens

<400> 2404

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Met Ala Cys Pro Lys Val Pro Lys Gln Glu Ala Val Trp His Met Gly
  1             5             10             15
Arg Trp Glu Asp Arg Trp Val Trp Gly Val Glu Thr Glu Gly Arg Ala
      20             25             30
Val Arg Val Glu Ala Gly Gly Gly Asp Ser Gly Asn Ser Asn Ile Tyr
      35             40             45
Arg Ser Phe Leu Phe Met His Phe Leu Phe Asn Asn Arg Lys Arg Gly
      50             55             60
Ser Ser Ser Asp Tyr Leu Ser Phe Val Asp Gly Gly Ser His Leu Ala
      65             70             75             80
Gln Arg Gly Glu Ala Ile His Leu Arg Ala Arg Ser Arg Cys Val Gly
      85             90             95
Lys Pro Gly Phe Leu Phe Phe Ile Phe Cys Phe Phe Phe Phe Glu Thr
      100            105            110
Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Asp Leu Gly
      115            120            125
Ser Leu Gln Ala Pro Pro Pro Gly Phe Thr Ser Phe Ser Cys Leu Ser
      130            135            140
Leu Leu Ser Ser Trp Asp Tyr Arg Cys Leu Pro Pro Arg Leu Ala Asn
      145            150            155            160
Phe Leu Tyr Phe Trp
      165

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<210> 2405

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2405

Met Tyr Val Trp Pro Ile Ile Tyr Leu Thr Ile Pro Leu Leu Leu Asp

1 5 10 15

Leu Gln Ile Phe Phe Phe Ser Phe Phe Phe Phe Glu Thr Glu Ala Arg

20 25 30

Ser Val Pro Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Pro Leu Gln

35 40 45

Thr Pro Pro Pro Arg Phe Lys Arg Phe Ser Phe Leu Ser Leu Pro Ser

50 55 60

Ser Trp Asp Tyr Arg Ser Pro Pro Pro Arg Leu Ala Asn Phe Cys Ile

65 70 75 80

Phe Ser Arg Asp Gly Val Ser Pro Tyr Trp Pro Gly Trp Ser Arg Thr

85 90 95

Pro Asp Leu Val Ile Arg Pro Pro Arg Pro Pro Lys Val Leu Gly Leu

100 105 110

Gln Ala

<210> 2406

<211> 693

<212> PRT

<213> Homo sapiens

<400> 2406

Met His Ser Ser Gly Val Ser Arg Gly Gly Ser Gly Phe Ser Ala Ser

1	5	10	15
Tyr Asn Cys Gln Glu Pro Pro Ser Ser His Ile Gln Pro Gly Leu Cys			
20	25	30	
Gly Leu Gly Asn Leu Gly Asn Thr Cys Phe Met Asn Ser Ala Leu Gln			
35	40	45	
Cys Leu Ser Asn Thr Ala Pro Leu Thr Asp Tyr Phe Leu Lys Asp Glu			
50	55	60	
Tyr Glu Ala Glu Ile Asn Arg Asp Asn Pro Leu Gly Met Lys Gly Glu			
65	70	75	80
Ile Ala Glu Ala Tyr Ala Glu Leu Ile Lys Gln Met Trp Ser Gly Arg			
85	90	95	
Asp Ala His Val Ala Pro Arg Met Phe Lys Thr Gln Val Gly Arg Phe			
100	105	110	
Ala Pro Gln Phe Ser Gly Tyr Gln Gln Gln Asp Ser Gln Glu Leu Leu			
115	120	125	
Ala Phe Leu Leu Asp Gly Leu His Glu Asp Leu Asn Arg Val Lys Lys			
130	135	140	
Lys Pro Tyr Leu Glu Leu Lys Asp Ala Asn Gly Arg Pro Asp Ala Val			
145	150	155	160
Val Ala Lys Glu Ala Trp Glu Asn His Arg Leu Arg Asn Asp Ser Val			
165	170	175	
Ile Val Asp Thr Phe His Gly Leu Phe Lys Ser Thr Leu Val Cys Pro			
180	185	190	
Glu Cys Ala Lys Val Ser Val Thr Phe Asp Pro Phe Cys Tyr Leu Thr			
195	200	205	
Leu Pro Leu Pro Leu Lys Lys Asp Arg Val Met Glu Val Phe Leu Val			
210	215	220	
Pro Ala Asp Pro His Cys Arg Pro Thr Gln Tyr Arg Val Thr Val Pro			
225	230	235	240

Leu Met Gly Ala Val Ser Asp Leu Cys Glu Ala Leu Ser Arg Leu Ser
245 250 255
Gly Ile Ala Ala Glu Asn Met Val Val Ala Asp Val Tyr Asn His Arg
260 265 270
Phe His Lys Ile Phe Gln Met Asp Glu Gly Leu Asn His Ile Met Pro
275 280 285
Arg Asp Asp Ile Phe Val Tyr Glu Val Cys Ser Thr Ser Val Asp Gly
290 295 300
Ser Glu Cys Val Thr Leu Pro Val Tyr Phe Arg Glu Arg Lys Ser Arg
305 310 315 320
Pro Ser Ser Thr Ser Ser Ala Ser Ala Leu Tyr Gly Gln Pro Leu Leu
325 330 335
Leu Ser Val Pro Lys His Lys Leu Thr Leu Glu Ser Leu Tyr Gln Ala
340 345 350
Val Cys Asp Arg Ile Ser Arg Tyr Val Lys Gln Pro Leu Pro Asp Glu
355 360 365
Phe Gly Ser Ser Pro Leu Glu Pro Gly Ala Cys Asn Gly Ser Arg Asn
370 375 380
Ser Cys Glu Gly Glu Asp Glu Glu Glu Met Glu His Gln Glu Glu Gly
385 390 395 400
Lys Glu Gln Leu Ser Glu Thr Glu Gly Ser Gly Glu Asp Glu Pro Gly
405 410 415
Asn Asp Pro Ser Glu Thr Thr Gln Lys Lys Ile Lys Gly Gln Pro Cys
420 425 430
Pro Lys Arg Leu Phe Thr Phe Ser Leu Val Asn Ser Tyr Gly Thr Ala
435 440 445
Asp Ile Asn Ser Leu Ala Ala Asp Gly Lys Leu Leu Lys Leu Asn Ser
450 455 460
Arg Ser Thr Leu Ala Met Asp Trp Asp Ser Glu Thr Arg Arg Leu Tyr

465 470 475 480
Tyr Asp Glu Gln Glu Ser Glu Ala Tyr Glu Lys His Val Ser Met Leu
 485 490 495
Gln Pro Gln Lys Lys Lys Lys Thr Thr Val Ala Leu Arg Asp Cys Ile
 500 505 510
Glu Leu Phe Thr Thr Met Glu Thr Leu Gly Glu His Asp Pro Trp Tyr
 515 520 525
Cys Pro Asn Cys Lys Lys His Gln Gln Ala Thr Lys Lys Phe Asp Leu
 530 535 540
Trp Ser Leu Pro Lys Ile Leu Val Val His Leu Lys Arg Phe Ser Tyr
545 550 555 560
Asn Arg Tyr Trp Arg Asp Lys Leu Asp Thr Val Val Glu Phe Pro Ile
 565 570 575
Arg Gly Leu Asn Met Ser Glu Phe Val Cys Asn Leu Ser Ala Arg Pro
 580 585 590
Tyr Val Tyr Asp Leu Ile Ala Val Ser Asn His Tyr Gly Ala Met Gly
 595 600 605
Val Gly His Tyr Thr Ala Tyr Ala Lys Asn Lys Leu Asn Gly Lys Trp
 610 615 620
Tyr Tyr Phe Asp Asp Ser Asn Val Ser Leu Ala Ser Glu Asp Gln Ile
625 630 635 640
Val Thr Lys Ala Ala Tyr Val Leu Phe Tyr Gln Arg Arg Asp Asp Glu
 645 650 655
Phe Tyr Lys Thr Pro Ser Leu Ser Ser Ser Gly Ser Ser Asp Gly Gly
 660 665 670
Thr Arg Pro Ser Ser Ser Gln Gln Gly Phe Gly Asp Asp Glu Ala Cys
 675 680 685
Ser Met Asp Thr Asn
690

<210> 2407

<211> 617

<212> PRT

<213> Homo sapiens

<400> 2407

Met Met Arg Arg Ser Leu Glu Arg Thr Gln Gln Leu Glu Leu Lys Lys

1 5 10 15

Lys Tyr Ser Trp Gly Ala Pro Leu Ala Ile Gly Pro Gly Gly His Asp

20 25 30

Gly Leu Ala Ala Ser Thr Leu Pro Pro Asp Ala Gly Thr Thr Ala Ala

35 40 45

Ala Ala Glu Ser Thr Asn Ala Cys Asp Lys Leu Ser Thr Ser Thr Met

50 55 60

Ser Leu Pro Lys Pro Thr Glu Pro Pro Met Asn Lys Arg Leu Ser Ser

65 70 75 80

Ser Thr Val Ala Ile Ser Tyr Ser Pro Asp Arg Ala Pro Leu Gly Pro

85 90 95

Leu Asn Pro Ser Tyr Lys Ser Ser Pro Thr Arg Asn Ile Glu Lys Lys

100 105 110

Lys Ala Thr Ser Thr Ser Thr Ser Gly Ala Gly Asp Val Gly Lys Glu

115 120 125

Ala Leu Ser Gly Gly Glu Ala Ser Leu Val Glu Lys Val Lys Arg Gly

130 135 140

Gln Arg Thr Ala Thr Ser Leu Pro Val Val Asn Phe Gly Ser Pro Leu

145 150 155 160

Arg Arg Cys Glu Phe Ser Gly Gly Ile Pro Lys Arg Pro Ser Ser Pro

	165		170		175
Val Ile Ser Lys Thr Ala Thr Lys Ala Tyr Pro Gln Ser Pro Lys Thr					
	180		185		190
Thr Lys Pro Pro Tyr Pro Gly Ser Pro Val Lys Tyr Arg Leu Pro Ala					
	195		200		205
Leu Ser Gly Gln Asp Met Pro Lys Arg Lys Ala Glu Lys Glu Lys Ser					
	210		215		220
Asn Lys Glu Arg Glu Gly Thr Leu Ala Gln Gln Ala Ala Gly Pro Gln					
225		230		235	240
Gly Glu Glu Ala Leu Glu Lys His Val Val Asp Lys His Ala Ser Glu					
	245		250		255
Lys His Ala Ala Ala Ala Gly Gly Lys Ala Glu Asn Ser Ala Ala Leu					
	260		265		270
Gly Lys Pro Thr Ala Gly Thr Thr Asp Ala Gly Glu Ala Ala Lys Ile					
	275		280		285
Leu Ala Glu Lys Arg Arg Gln Ala Arg Leu Gln Lys Glu Gln Glu Glu					
	290		295		300
Gln Glu Arg Leu Glu Lys Glu Glu Gln Asp Arg Leu Glu Arg Glu Glu					
305		310		315	320
Leu Lys Arg Lys Ala Glu Glu Glu Arg Leu Arg Leu Glu Glu Glu Ala					
	325		330		335
Arg Lys Gln Glu Glu Glu Arg Lys Arg Gln Glu Glu Glu Lys Lys Lys					
	340		345		350
Gln Glu Gly Glu Glu Lys Arg Lys Ala Gly Glu Glu Ala Lys Arg Lys					
	355		360		365
Ala Glu Glu Glu Leu Leu Leu Lys Glu Lys Gln Glu Gln Glu Lys Gln					
	370		375		380
Glu Lys Ala Met Ile Glu Lys Gln Lys Glu Ala Ala Glu Thr Lys Ala					
385		390		395	400

Arg Glu Val Ala Glu Gln Met Arg Leu Glu Arg Glu Gln Ile Met Leu			
405	410	415	
Gln Ile Glu Gln Glu Arg Leu Glu Arg Lys Lys Arg Ile Asp Glu Ile			
420	425	430	
Met Lys Arg Thr Arg Lys Ser Asp Val Ser Pro Gln Val Lys Lys Glu			
435	440	445	
Asp Pro Lys Val Gly Val Gln Pro Ala Val Cys Val Glu Lys Lys Thr			
450	455	460	
Lys Leu Val Val Pro Asn Lys Met Glu Ile Ser Gly Leu Asn Thr Cys			
465	470	475	480
Gln Glu Val Asn Gly Val Asp His Ala Ala Pro Glu Thr Tyr Pro Gln			
485	490	495	
Asp Ile Phe Ser Asn Gly Leu Lys Pro Ala Gly Gly Leu Ile His Leu			
500	505	510	
Asp Ala Leu Asp Gly Lys Ser Asn Ser Leu Asp Asp Ser Thr Glu Glu			
515	520	525	
Val Gln Ser Met Asp Val Ser Pro Val Ser Lys Glu Glu Leu Ile Ser			
530	535	540	
Ile Pro Glu Phe Ser Pro Val Ser Glu Met Ile Pro Gly Val Ser Leu			
545	550	555	560
Asp Gln Asn Gly Thr Gly Asn Ala Arg Ala Leu Gln Asp Leu Leu Asp			
565	570	575	
Phe Thr Gly Pro Pro Thr Phe Pro Lys Arg Ser Ser Glu Asn Leu Ser			
580	585	590	
Leu Asp Asp Cys Asn Lys Asn Leu Ile Glu Gly Phe Asn Ser Pro Gly			
595	600	605	
Gln Glu Thr Pro Leu Asn Thr Phe Cys			
610	615		

<210> 2408

<211> 752

<212> PRT

<213> Homo sapiens

<400> 2408

Met Asp Val Arg Arg Leu Lys Val Asn Glu Leu Arg Glu Glu Leu Gln

1 5 10 15

Arg Arg Gly Leu Asp Thr Arg Gly Leu Lys Ala Glu Leu Ala Glu Arg

20 25 30

Leu Gln Pro Pro Pro Pro Gly Leu Gln Pro His Ala Glu Pro Gly Gly

35 40 45

Tyr Ser Gly Pro Asp Gly His Tyr Ala Met Asp Asn Ile Thr Arg Gln

50 55 60

Asn Gln Phe Tyr Asp Thr Gln Val Ile Lys Gln Glu Asn Glu Ser Gly

65 70 75 80

Tyr Glu Arg Arg Pro Leu Glu Met Glu Gln Gln Gln Ala Tyr Arg Pro

85 90 95

Glu Met Lys Thr Glu Met Lys Gln Gly Ala Pro Thr Ser Phe Leu Pro

100 105 110

Pro Glu Ala Ser Gln Leu Lys Pro Asp Arg Gln Gln Phe Gln Ser Arg

115 120 125

Lys Arg Pro Tyr Glu Glu Asn Arg Gly Arg Gly Tyr Phe Glu His Arg

130 135 140

Glu Asp Arg Arg Gly Arg Ser Pro Gln Pro Pro Ala Glu Glu Asp Glu

145 150 155 160

Asp Asp Phe Asp Asp Thr Leu Val Ala Ile Asp Thr Tyr Asn Cys Asp

165 170 175

Leu His Phe Lys Val Ala Arg Asp Arg Ser Ser Gly Tyr Pro Leu Thr
180 185 190
Ile Glu Gly Phe Ala Tyr Leu Trp Ser Gly Ala Arg Ala Ser Tyr Gly
195 200 205
Val Arg Arg Gly Arg Val Cys Phe Glu Met Lys Asp Phe Glu Cys Gly
210 215 220
Asn Asp Val Glu Leu Ser Phe Thr Lys Asn Gly Lys Trp Met Gly Ile
225 230 235 240
Ala Phe Arg Ile Gln Lys Glu Ala Leu Gly Gly Gln Ala Leu Tyr Pro
245 250 255
His Val Leu Val Lys Asn Cys Ala Val Glu Phe Asn Phe Gly Gln Arg
260 265 270
Ala Glu Pro Tyr Cys Ser Val Leu Pro Gly Phe Thr Phe Ile Gln His
275 280 285
Leu Pro Leu Ser Glu Arg Ile Arg Gly Thr Val Gly Pro Lys Ser Lys
290 295 300
Ala Glu Cys Glu Ile Leu Met Met Val Gly Leu Pro Ala Ala Gly Lys
305 310 315 320
Thr Thr Trp Ala Ile Lys His Ala Ala Ser Asn Pro Ser Lys Lys Tyr
325 330 335
Asn Ile Leu Gly Thr Asn Ala Ile Met Asp Lys Met Arg Val Met Gly
340 345 350
Leu Arg Arg Gln Arg Asn Tyr Ala Gly Arg Trp Asp Val Leu Ile Gln
355 360 365
Gln Ala Thr Gln Cys Leu Asn Arg Leu Ile Gln Ile Ala Ala Arg Lys
370 375 380
Lys Arg Asn Tyr Ile Leu Asp Gln Thr Ser Val Tyr Gly Ser Ala Gln
385 390 395 400
Arg Arg Lys Met Arg Pro Phe Glu Gly Phe Gln Arg Lys Ala Ile Val

405	410	415
Ile Cys Pro Thr Asp Glu Asp Leu Lys Asp Arg Thr Ile Lys Arg Thr		
420	425	430
Asp Glu Glu Gly Lys Asp Val Pro Asp His Ala Val Leu Glu Met Lys		
435	440	445
Ala Asn Phe Thr Leu Pro Asp Val Gly Asp Phe Leu Asp Glu Val Leu		
450	455	460
Phe Ile Glu Leu Gln Arg Glu Glu Ala Asp Lys Leu Val Arg Gln Tyr		
465	470	475
Asn Glu Glu Gly Arg Lys Ala Gly Pro Pro Pro Glu Lys Arg Phe Asp		
485	490	495
Asn Arg Gly Gly Gly Gly Phe Arg Gly Arg Gly Gly Gly Gly Gly Phe		
500	505	510
Gln Arg Tyr Glu Asn Arg Gly Pro Pro Gly Gly Asn Arg Gly Gly Phe		
515	520	525
Gln Asn Arg Gly Gly Gly Ser Gly Gly Gly Gly Asn Tyr Arg Gly Gly		
530	535	540
Phe Asn Arg Ser Gly Gly Gly Gly Tyr Ser Gln Asn Arg Trp Gly Asn		
545	550	555
Asn Asn Arg Asp Asn Asn Asn Ser Asn Asn Arg Gly Ser Tyr Asn Arg		
565	570	575
Ser Pro Gln Gln Gln Pro Pro Pro Gln Gln Pro Pro Pro Pro Gln Pro		
580	585	590
Pro Pro Gln Gln Pro Pro Pro Pro Pro Ser Tyr Ser Pro Ala Arg Asn		
595	600	605
Pro Pro Gly Ala Ser Thr Tyr Asn Lys Asn Ser Asn Ile Pro Gly Ser		
610	615	620
Ser Ala Asn Thr Ser Thr Pro Thr Val Ser Ser Tyr Ser Pro Pro Gln		
625	630	635
		640

Ser Phe Gly Phe Phe Pro Ser Thr Phe Gln Pro Ser Tyr Ser Gln Pro
 645 650 655
 Pro Tyr Asn Gln Gly Gly Tyr Ser Gln Gly Tyr Thr Ala Pro Pro Pro
 660 665 670
 Pro Pro Pro Pro Pro Pro Ala Tyr Asn Tyr Gly Ser Tyr Gly Gly Tyr
 675 680 685
 Asn Pro Ala Pro Tyr Thr Pro Pro Pro Pro Pro Thr Ala Gln Thr Tyr
 690 695 700
 Pro Gln Pro Ser Tyr Asn Gln Tyr Gln Gln Tyr Ala Gln Gln Trp Asn
 705 710 715 720
 Gln Tyr Tyr Gln Asn Gln Gly Gln Trp Pro Pro Tyr Tyr Gly Asn Tyr
 725 730 735
 Asp Tyr Gly Ser Tyr Ser Gly Asn Thr Gln Gly Gly Thr Ser Thr Gln
 740 745 750

<210> 2409

<211> 333

<212> PRT

<213> Homo sapiens

<400> 2409

Met Gln Lys Gln Lys Leu Gln Met Pro Pro Gln Pro Pro Pro Gln
 1 5 10 15
 Ala Gln Ser Ala Pro Pro Gln Pro Thr Ala Gln Val Gln Val Gln Thr
 20 25 30
 Ser Gln Pro Pro Gln Gln Gln Ser Pro Gln Leu Thr Thr Val Thr Ala
 35 40 45
 Pro Arg Pro Gly Ala Leu Leu Thr Gly Thr Thr Val Ala Asn Leu Gln

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Ala Pro Leu Gln Thr Pro Gly Ala Pro Asn Pro Ala Gln Val Pro Ala
 290 295 300
 Ser Ser Asp Ser Pro Ser Gln Gln Pro Lys Leu Gln Met Arg Val Pro
 305 310 315 320
 Ala Val Arg Leu Lys Thr Pro Thr Lys Pro Pro Cys Gln
 325 330

<210> 2410

<211> 390

<212> PRT

<213> Homo sapiens

<400> 2410

Met Glu Asp Asn Ala Phe Arg Thr Asp Asn Gly Asn Asn Leu Leu Pro
 1 5 10 15
 Phe Gln Asp Arg Ser Arg Pro Tyr Asp Thr Phe Asn Leu His Ser Leu
 20 25 30
 Glu Asn Ser Leu Met Asp Met Ile Arg Thr Asp His Glu Pro Leu Lys
 35 40 45
 Gly Lys His Tyr Pro Pro Ser Gly Pro Pro Met Ser Phe Ala Asp Ile
 50 55 60
 Met Trp Arg Asn His Phe Ala Gly Arg Met Gly Ile Asn Phe His His
 65 70 75 80
 Pro Gly Thr Asp Asn Ile Met Ala Leu Asn Ser Arg Ser Ser Leu Phe
 85 90 95
 Pro Phe Glu Asp Ala Phe Leu Asp Asp Ser His Gly Asp Gln Ala Leu
 100 105 110
 Ser Ser Gly Leu Ser Ser Pro Thr Arg Cys Gln Asn Gly Glu Arg Val

115 120 125
Glu Arg Tyr Ser Arg Lys Val Phe Val Gly Gly Leu Pro Pro Asp Ile
130 135 140
Asp Glu Asp Glu Ile Thr Ala Ser Phe Arg Arg Phe Gly Pro Leu Val
145 150 155 160
Val Asp Trp Pro His Lys Ala Glu Ser Lys Ser Tyr Phe Pro Pro Lys
165 170 175
Gly Tyr Ala Phe Leu Leu Phe Gln Glu Glu Ser Ser Val Gln Ala Leu
180 185 190
Ile Asp Ala Cys Leu Glu Glu Asp Gly Lys Leu Tyr Leu Cys Val Ser
195 200 205
Ser Pro Thr Ile Lys Asp Lys Pro Val Gln Ile Arg Pro Trp Asn Leu
210 215 220
Ser Asp Ser Asp Phe Val Met Asp Gly Ser Gln Pro Leu Asp Pro Arg
225 230 235 240
Lys Thr Ile Phe Val Gly Gly Val Pro Arg Pro Leu Arg Ala Val Glu
245 250 255
Leu Ala Met Ile Met Asp Arg Leu Tyr Gly Gly Val Cys Tyr Ala Gly
260 265 270
Ile Asp Thr Asp Pro Glu Leu Lys Tyr Pro Lys Gly Ala Gly Arg Val
275 280 285
Ala Phe Ser Asn Gln Gln Ser Tyr Ile Ala Ala Ile Ser Ala Arg Phe
290 295 300
Val Gln Leu Gln His Asn Asp Ile Asp Lys Arg Val Glu Val Lys Pro
305 310 315 320
Tyr Val Leu Asp Asp Gln Met Cys Asp Glu Cys Gln Gly Thr Arg Cys
325 330 335
Gly Gly Lys Phe Ala Pro Phe Phe Cys Ala Asn Val Thr Cys Leu Gln
340 345 350

Tyr Tyr Cys Glu Tyr Cys Trp Ala Ser Ile His Ser Arg Ala Gly Arg
 355 360 365
 Glu Phe His Lys Pro Leu Val Lys Glu Gly Gly Asp Arg Pro Arg His
 370 375 380
 Val Pro Phe Arg Trp Ser
 385 390

<210> 2411

<211> 874

<212> PRT

<213> Homo sapiens

<400> 2411

Met Ala Asn Leu Lys Ile Glu Leu Ser Lys Leu Asp Ser Glu Ala Trp
 1 5 10 15
 Pro Gly Ala Leu Asp Ile Glu Lys Glu Lys Leu Met Leu Ile Asn Glu
 20 25 30
 Lys Glu Glu Leu Leu Lys Glu Leu Gln Phe Val Thr Pro Gln Lys Arg
 35 40 45
 Thr Gln Asp Glu Leu Glu Arg Leu Glu Ala Glu Arg Gln Arg Leu Glu
 50 55 60
 Glu Glu Leu Leu Ser Val Arg Gly Thr Pro Ser Arg Ala Leu Ala Glu
 65 70 75 80
 Arg Leu Arg Leu Glu Glu Arg Arg Lys Glu Leu Leu Gln Lys Leu Glu
 85 90 95
 Glu Thr Thr Lys Leu Thr Thr Tyr Leu His Ser Gln Leu Lys Ser Leu
 100 105 110
 Ser Ala Ser Thr Leu Ser Met Ser Ser Gly Ser Ser Leu Gly Ser Leu

115	120	125
Ala Ser Ser Arg Gly Ser Leu Asn Thr Ser Ser Arg Gly Ser Leu Asn		
130	135	140
Ser Leu Ser Ser Thr Glu Leu Tyr Tyr Ser Ser Gln Ser Asp Gln Ile		
145	150	155
Asp Val Asp Tyr Gln Tyr Lys Leu Asp Phe Leu Leu Gln Glu Lys Ser		
165	170	175
Gly Tyr Ile Pro Ser Gly Pro Ile Thr Thr Ile His Glu Asn Glu Val		
180	185	190
Val Lys Ser Pro Ser Gln Pro Gly Gln Ser Gly Leu Cys Gly Val Ala		
195	200	205
Ala Ala Ala Thr Gly His Thr Pro Pro Leu Ala Glu Ala Pro Lys Ser		
210	215	220
Val Ala Ser Leu Ser Ser Arg Ser Ser Leu Ser Ser Leu Ser Pro Pro		
225	230	235
Gly Ser Pro Leu Val Leu Glu Gly Thr Phe Pro Met Ser Ser Ser His		
245	250	255
Asp Ala Ser Leu His Gln Phe Thr Ala Asp Phe Glu Asp Cys Glu Leu		
260	265	270
Ser Ser His Phe Ala Asp Ile Ser Leu Ile Glu Asn Gln Ile Leu Leu		
275	280	285
Asp Ser Asp Ser Gly Gly Ala Ser Gln Ser Leu Ser Glu Asp Lys Asp		
290	295	300
Leu Asn Glu Cys Ala Arg Glu Pro Leu Tyr Glu Gly Thr Ala Asp Val		
305	310	315
Glu Lys Ser Leu Pro Lys Arg Arg Val Ile His Leu Leu Gly Glu Lys		
325	330	335
Thr Thr Cys Val Ser Ala Ala Val Ser Asp Glu Ser Val Ala Gly Asp		
340	345	350

Ser Gly Val Tyr Glu Ala Phe Val Lys Gln Pro Ser Glu Met Glu Asp
355 360 365
Val Thr Tyr Ser Glu Glu Asp Val Ala Ile Val Glu Thr Ala Gln Val
370 375 380
Gln Ile Gly Leu Arg Tyr Asn Ala Lys Ser Ser Ser Phe Met Val Ile
385 390 395 400
Ile Ala Gln Leu Arg Asn Leu His Ala Phe Leu Ile Pro His Thr Ser
405 410 415
Lys Val Tyr Phe Arg Val Ala Val Leu Pro Ser Ser Thr Asp Val Ser
420 425 430
Cys Leu Phe Arg Thr Lys Val His Pro Pro Thr Glu Ser Ile Leu Phe
435 440 445
Asn Asp Val Phe Arg Val Ala Ile Ser Gln Thr Ala Leu Gln Gln Lys
450 455 460
Thr Leu Arg Val Asp Leu Cys Ser Val Ser Lys His Arg Arg Glu Glu
465 470 475 480
Cys Leu Ala Gly Thr Gln Ile Ser Leu Ala Asp Leu Pro Phe Ser Ser
485 490 495
Glu Val Phe Thr Leu Trp Tyr Asn Leu Leu Pro Ser Lys Gln Met Pro
500 505 510
Cys Lys Lys Asn Glu Glu Asn Glu Asp Ser Val Phe Gln Pro Asn Gln
515 520 525
Pro Leu Val Asp Ser Ile Asp Leu Asp Ala Val Ser Ala Leu Leu Ala
530 535 540
Arg Thr Ser Ala Glu Leu Leu Ala Val Glu Gln Glu Leu Ala Gln Glu
545 550 555 560
Glu Glu Glu Glu Ser Gly Gln Glu Glu Pro Arg Gly Pro Asp Gly Asp
565 570 575
Trp Leu Thr Met Leu Arg Glu Ala Ser His Glu Ile Val Ala Glu Lys

580 585 590
Glu Ala Glu Val Lys Leu Pro Glu Asp Ser Ser Cys Thr Glu Asp Leu
595 600 605
Ser Ser Cys Thr Ser Val Pro Glu Met Asn Glu Asp Gly Asn Arg Lys
610 615 620
Glu Ser Asn Cys Ala Lys Asp Leu Arg Ser Gln Pro Pro Thr Arg Ile
625 630 635 640
Pro Thr Leu Val Asp Lys Glu Thr Asn Thr Asp Glu Ala Ala Asn Asp
645 650 655
Asn Met Ala Val Arg Pro Lys Glu Arg Ser Ser Leu Ser Ser Arg Gln
660 665 670
His Pro Phe Val Arg Ser Ser Val Ile Val Arg Ser Gln Thr Phe Ser
675 680 685
Pro Gly Glu Arg Asn Gln Tyr Ile Cys Arg Leu Asn Arg Ser Asp Ser
690 695 700
Asp Ser Ser Thr Leu Ala Lys Lys Ser Leu Phe Val Arg Asn Ser Thr
705 710 715 720
Glu Arg Arg Ser Leu Arg Val Lys Arg Thr Val Cys Gln Ser Val Leu
725 730 735
Arg Arg Thr Thr Gln Glu Cys Pro Val Arg Thr Ser Leu Asp Leu Glu
740 745 750
Leu Asp Leu Gln Ala Ser Leu Thr Arg Gln Ser Arg Leu Asn Asp Glu
755 760 765
Leu Gln Ala Leu Arg Asp Leu Arg Gln Lys Leu Glu Glu Leu Lys Ala
770 775 780
Gln Gly Glu Thr Asp Leu Pro Pro Gly Val Leu Glu Asp Glu Arg Phe
785 790 795 800
Gln Arg Leu Leu Lys Gln Ala Glu Lys Gln Ala Glu Gln Ser Lys Glu
805 810 815

Glu Gln Lys Gln Gly Leu Asn Ala Glu Lys Leu Met Arg Gln Val Ser
 820 825 830
 Lys Asp Val Cys Arg Leu Arg Glu Gln Ser Gln Lys Val Pro Arg Gln
 835 840 845
 Val Gln Ser Phe Arg Glu Lys Ile Ala Tyr Phe Thr Arg Ala Lys Ile
 850 855 860
 Ser Ile Pro Ser Leu Pro Ala Asp Asp Val
 865 870

<210> 2412

<211> 428

<212> PRT

<213> Homo sapiens

<400> 2412

Met Pro Ser Gly Cys Tyr Val Pro Arg Ser Glu Pro Arg Leu Leu Pro
 1 5 10 15
 Ala Pro Pro Pro Ala Gly Ala Arg Val Gly Ala Leu Arg Ser Ala Gln
 20 25 30
 Gly Asp Gly Pro Thr Ser Gly His Trp Asp Gly Gly Ala Glu Lys Ala
 35 40 45
 Asp Phe Asn Ala Lys Arg Lys Lys Lys Val Ala Glu Ile His Gln Ala
 50 55 60
 Leu Asn Ser Asp Pro Thr Asp Val Ala Ala Leu Arg Arg Met Ala Ile
 65 70 75 80
 Ser Glu Gly Gly Leu Leu Thr Asp Glu Ile Arg Arg Lys Val Trp Pro
 85 90 95
 Lys Leu Leu Asn Val Asn Ala Asn Asp Pro Pro Pro Ile Ser Gly Lys

100	105	110	
Asn Leu Arg Gln Met Ser Lys Asp Tyr Gln Gln Val Leu Leu Asp Val			
115	120	125	
Arg Arg Ser Leu Arg Arg Phe Pro Pro Gly Met Pro Glu Gly Gln Arg			
130	135	140	
Glu Gly Leu Gln Glu Glu Leu Ile Asp Ile Ile Leu Leu Ile Leu Glu			
145	150	155	160
Arg Asn Pro Gln Leu His Tyr Tyr Gln Gly Tyr His Asp Ile Val Val			
165	170	175	
Thr Phe Leu Leu Val Val Gly Glu Arg Leu Ala Thr Ser Leu Val Glu			
180	185	190	
Lys Leu Ser Thr His His Leu Arg Asp Phe Met Asp Pro Thr Met Asp			
195	200	205	
Asn Thr Lys His Ile Leu Asn Tyr Leu Met Pro Ile Ile Asp Gln Val			
210	215	220	
Asn Pro Glu Leu His Asp Phe Met Gln Ser Ala Glu Val Gly Thr Ile			
225	230	235	240
Phe Ala Leu Ser Trp Leu Ile Thr Trp Phe Gly His Val Leu Ser Asp			
245	250	255	
Phe Arg His Val Val Arg Leu Tyr Asp Phe Phe Leu Ala Cys His Pro			
260	265	270	
Leu Met Pro Ile Tyr Phe Ala Ala Val Ile Val Leu Tyr Arg Glu Gln			
275	280	285	
Glu Val Leu Asp Cys Asp Cys Asp Met Ala Ser Val His His Leu Leu			
290	295	300	
Ser Gln Ile Pro Gln Asp Leu Pro Tyr Glu Thr Leu Ile Ser Arg Ala			
305	310	315	320
Gly Asp Leu Phe Val Gln Phe Pro Pro Ser Glu Leu Ala Arg Glu Ala			
325	330	335	

Ala Ala Gln Gln Gln Ala Glu Arg Thr Ala Ala Ser Thr Phe Lys Asp

340

345

350

Phe Glu Leu Ala Ser Ala Gln Gln Arg Pro Asp Met Val Leu Arg Gln

355

360

365

Arg Phe Arg Gly Leu Leu Arg Pro Glu Asp Arg Thr Lys Asp Val Leu

370

375

380

Thr Lys Pro Arg Thr Asn Arg Phe Val Lys Leu Ala Val Met Gly Leu

385

390

395

400

Thr Val Ala Leu Gly Ala Ala Ala Leu Ala Val Val Lys Ser Ala Leu

405

410

415

Glu Trp Ala Pro Lys Phe Gln Leu Gln Leu Phe Pro

420

425

<210> 2413

<211> 685

<212> PRT

<213> Homo sapiens

<400> 2413

Met Pro Ala Tyr Thr His Ala Ser Pro Ile His Asn Thr His Lys Pro

1

5

10

15

Tyr Glu Cys Lys Glu Cys Gly Lys Tyr Phe Ser Cys Gly Ser Asn Leu

20

25

30

Ile Gln His Gln Ser Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Lys

35

40

45

Glu Cys Gly Lys Ala Phe Gln Leu His Ile Gln Leu Thr Arg His Gln

50

55

60

Lys Phe His Thr Gly Glu Lys Thr Phe Glu Cys Lys Glu Cys Gly Lys

65	70	75	80
Ala Phe Asn Leu Pro Thr Gln Leu Asn Arg His Lys Asn Ile His Thr			
	85	90	95
Val Lys Lys Leu Phe Glu Cys Lys Glu Cys Gly Lys Ser Phe Asn Arg			
	100	105	110
Ser Ser Asn Leu Thr Gln His Gln Ser Ile His Ala Gly Val Lys Pro			
	115	120	125
Tyr Gln Cys Lys Glu Cys Gly Lys Ala Phe Asn Arg Gly Ser Asn Leu			
	130	135	140
Ile Gln His Gln Lys Ile His Ser Asn Glu Lys Pro Phe Val Cys Arg			
	145	150	155
Glu Cys Glu Met Val Phe Arg Tyr His Tyr Gln Leu Ile Glu His Cys			
	165	170	175
Arg Ile His Thr Gly Glu Lys Pro Phe Glu Cys Lys Glu Cys Arg Lys			
	180	185	190
Ala Phe Thr Leu Leu Thr Lys Leu Val Arg His Gln Lys Ile His Met			
	195	200	205
Gly Glu Lys Pro Phe Glu Cys Arg Glu Cys Gly Lys Ala Phe Ser Leu			
	210	215	220
Leu Asn Gln Leu Asn Arg His Lys Asn Ile His Thr Gly Glu Lys Pro			
	225	230	235
Phe Glu Cys Lys Glu Cys Gly Lys Ser Phe Asn Arg Ser Ser Asn Leu			
	245	250	255
Ile Gln His Gln Gly Ile His Ala Asp Val Lys Pro Tyr Glu Cys Lys			
	260	265	270
Glu Cys Gly Lys Gly Phe Asn Arg Gly Ala Asn Leu Ile Gln His Gln			
	275	280	285
Lys Ile His Ser Asn Glu Lys Pro Phe Val Cys Arg Glu Cys Glu Met			
	290	295	300

Ala Phe Arg Tyr His Tyr Gln Leu Ile Gln His Cys Gln Ile His Thr
305 310 315 320
Gly Gly Lys Pro Phe Glu Cys Lys Glu Cys Gly Lys Ala Phe Ser Leu
325 330 335
Leu Thr Gln Leu Ala Arg His Lys Asn Ile His Thr Gly Glu Lys Pro
340 345 350
Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe Asn Arg Gly Ser Asn Leu
355 360 365
Val Gln His Gln Ser Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys
370 375 380
Glu Cys Gly Lys Ala Phe Arg Leu His Leu Gln Leu Ser Gln His Glu
385 390 395 400
Lys Thr His Thr Gly Glu Lys Pro Phe Glu Cys Lys Glu Cys Gly Lys
405 410 415
Phe Phe Arg Arg Gly Ser Asn Leu Asn Gln His Arg Ser Ile His Thr
420 425 430
Gly Lys Lys Pro Phe Glu Cys Lys Glu Cys Gly Lys Ala Phe Arg Leu
435 440 445
His Met His Leu Ile Arg His Gln Lys Phe His Thr Gly Glu Glu Pro
450 455 460
Phe Glu Cys Lys Glu Cys Gly Lys Ala Phe Ser Leu His Thr Gln Leu
465 470 475 480
Asn His His Lys Asn Ile His Thr Gly Glu Lys Pro Phe Lys Cys Lys
485 490 495
Glu Cys Gly Lys Ser Phe Asn Arg Val Ser Asn Leu Val Gln His Gln
500 505 510
Ser Ile His Ala Gly Val Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys
515 520 525
Gly Phe Ser Arg Val Ser Asn Leu Ile Gln His Gln Lys Thr His Ser

530	535	540
Ser Ala Lys Pro Phe Val Cys Lys Glu Cys Arg Lys Thr Phe Arg Tyr		
545	550	555
560		
His Tyr Gln Leu Thr Glu His Tyr Arg Ile His Thr Gly Glu Lys Pro		
565	570	575
Phe Glu Cys Lys Glu Cys Gly Lys Ala Phe Gly Leu Leu Thr Gln Leu		
580	585	590
Ala Gln His Gln Ile Ile His Thr Gly Glu Lys Pro Phe Lys Cys Lys		
595	600	605
Glu Cys Gly Lys Ala Phe Asn Arg Gly Ser Asn Leu Val Gln Pro Gln		
610	615	620
Ser Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys		
625	630	635
640		
Ala Phe Arg Leu His Leu Gln Leu Ser Leu His Gln Lys Leu Val Gln		
645	650	655
Val Arg Asn Pro Leu Asn Val Arg Asn Val Gly Gln Pro Ser Asp Ile		
660	665	670
Ser Ser Asn Leu Leu Asn Ile Arg Lys Phe Ile Leu Gly		
675	680	685

<210> 2414

<211> 207

<212> PRT

<213> Homo sapiens

<400> 2414

Met Ala Asn Thr Glu Phe Pro Gly Gln Pro Leu Pro Trp Thr Ser Gly			
1	5	10	15

Leu Leu Gly Pro Leu Gly His Leu Glu Gln Leu Pro Glu Leu Thr Ala
20 25 30
Gln Asp Ser Ile Ala Thr Phe Ser Gly Glu Gly Leu Gly Asp Leu Glu
35 40 45
Ala Pro His Gly Val Leu Gly Ile Asn Asp Ala Ala Thr Gln Leu Pro
50 55 60
Trp Gly Ser Trp Gly Leu Val Ser Asp Met Ala Thr Arg Leu Pro Trp
65 70 75 80
Gly Ser Arg Gly Ser Leu Thr Pro Thr Arg Gly Cys Pro Gly Pro Pro
85 90 95
Arg Gly Arg Gln Ala Glu Val Arg Arg Glu His Ala Arg Ala Pro Gly
100 105 110
Gly His Gln Gly Ala Ala Pro Ala Ser Ala Pro Pro Pro Ala Pro Ser
115 120 125
His Thr Leu Gln Cys Ala Val Pro Thr Arg Pro Pro Gln Glu Gly Ala
130 135 140
Leu Ala Gly Gln Leu Val His Asp Ala Val Ile Ser Leu Gly Val Gly
145 150 155 160
Cys Cys Gly His His Val Leu Trp Ala Ser Ser Ala Glu Pro Cys Thr
165 170 175
Gly Trp Pro Gly Ala Pro His Ala Gly Val Ser Thr Cys Leu Ala Ala
180 185 190
His Leu Val Arg Leu Pro Phe Leu Gly Pro Leu Val Gln Leu Cys
195 200 205

<210> 2415

<211> 645

<212> PRT

<213> Homo sapiens

<400> 2415

Met Gly Arg Leu Asn Glu Gln Arg Leu Phe Gln Pro Asp Leu Cys Asp
1 5 10 15
Val Asp Leu Val Leu Val Pro Gln Arg Ser Val Phe Pro Ala His Lys
20 25 30
Gly Val Leu Ala Ala Tyr Ser Gln Phe Phe His Ser Leu Phe Thr Gln
35 40 45
Asn Lys Gln Leu Gln Arg Val Glu Leu Ser Leu Glu Ala Leu Ala Pro
50 55 60
Gly Gly Leu Gln Gln Ile Leu Asn Phe Ile Tyr Thr Ser Lys Leu Leu
65 70 75 80
Val Asn Ala Ala Asn Val His Glu Val Leu Ser Ala Ala Ser Leu Leu
85 90 95
Gln Met Ala Asp Ile Ala Ala Ser Cys Gln Glu Leu Leu Asp Ala Arg
100 105 110
Ser Leu Gly Pro Pro Gly Pro Gly Thr Val Ala Leu Ala Gln Pro Ala
115 120 125
Ala Ser Cys Thr Pro Ala Ala Pro Pro Tyr Tyr Cys Asp Ile Lys Gln
130 135 140
Glu Ala Asp Thr Pro Gly Leu Pro Lys Ile Tyr Ala Arg Glu Gly Arg
145 150 155 160
Asp Pro Tyr Ser Val Arg Val Glu Asp Gly Ala Gly Thr Ala Gly Gly
165 170 175
Thr Val Pro Ala Thr Ile Gly Pro Ala Gln Pro Phe Phe Lys Glu Glu
180 185 190
Lys Glu Gly Gly Val Glu Glu Ala Gly Gly Pro Pro Ala Ser Leu Cys
195 200 205

Lys Leu Glu Gly Gly Glu Glu Leu Glu Glu Glu Leu Gly Gly Ser Gly
 210 215 220
 Thr Tyr Ser Arg Arg Glu Gln Ser Gln Ile Ile Val Glu Val Asn Leu
 225 230 235 240
 Asn Asn Gln Thr Leu His Val Ser Thr Gly Pro Glu Gly Lys Pro Gly
 245 250 255
 Ala Gly Pro Ser Pro Ala Thr Val Val Leu Gly Arg Glu Asp Gly Pro
 260 265 270
 Gln Arg His Ser Asp Glu Glu Glu Glu Gly Asp Glu Glu Glu Glu Glu
 275 280 285
 Glu Glu Glu Glu Glu Glu Gly Gly Gly Ser Gly Arg Glu Glu Glu Glu
 290 295 300
 Glu Glu Gly Gly Ser Gln Gly Glu Glu Glu Glu Glu Glu Glu Asp Gly
 305 310 315 320
 His Ser Glu Gln Glu Glu Glu Glu Glu Glu Lys Gln His His Pro Cys
 325 330 335
 Gln Lys Cys Pro Arg Val Phe Asn Asn Arg Trp Tyr Leu Glu Lys His
 340 345 350
 Met Asn Val Thr His Ser Arg Met Gln Ile Cys Asp Gln Cys Gly Lys
 355 360 365
 Arg Phe Leu Leu Glu Ser Glu Leu Leu Leu His Arg Gln Thr Asp Cys
 370 375 380
 Glu Arg Asn Ile Gln Cys Val Thr Cys Gly Lys Ala Phe Lys Lys Leu
 385 390 395 400
 Trp Ser Leu His Glu His Asn Lys Ile Val His Gly Tyr Ala Glu Lys
 405 410 415
 Lys Phe Ser Cys Glu Ile Cys Glu Lys Lys Phe Tyr Thr Met Ala His
 420 425 430
 Val Arg Lys His Met Val Ala His Thr Lys Asp Met Pro Phe Thr Cys

435	440	445
Glu Thr Cys Gly Lys Ser Phe Lys Arg Ser Met Ser Leu Lys Val His		
450	455	460
Ser Leu Gln His Ser Gly Glu Lys Pro Phe Arg Cys Glu Asn Cys Asn		
465	470	475
Glu Arg Phe Gln Tyr Lys Tyr Gln Leu Arg Ser His Met Ser Ile His		
485	490	495
Ile Gly His Lys Gln Phe Met Cys Gln Trp Cys Gly Lys Asp Phe Asn		
500	505	510
Met Lys Gln Tyr Phe Asp Glu His Met Lys Thr His Thr Gly Glu Lys		
515	520	525
Pro Tyr Ile Cys Glu Ile Cys Gly Lys Ser Phe Thr Ser Arg Pro Asn		
530	535	540
Met Lys Arg His Arg Arg Thr His Thr Gly Glu Lys Pro Tyr Pro Cys		
545	550	555
Asp Val Cys Gly Gln Arg Phe Arg Phe Ser Asn Met Leu Lys Ala His		
565	570	575
Lys Glu Lys Cys Phe Arg Val Ser His Thr Leu Ala Gly Asp Gly Val		
580	585	590
Pro Ala Ala Pro Gly Leu Pro Pro Thr Gln Pro Gln Ala His Ala Leu		
595	600	605
Pro Leu Leu Pro Gly Leu Pro Gln Thr Leu Pro Pro Pro Pro His Leu		
610	615	620
Pro Pro Pro Pro Pro Leu Phe Pro Thr Thr Ala Ser Pro Gly Gly Arg		
625	630	635
Met Asn Ala Asn Asn		
645		

<210> 2416

<211> 413

<212> PRT

<213> Homo sapiens

<400> 2416

Met Thr Gly Asn Pro Ala Glu Glu Gly Asp Val Pro Arg Ser Ser Pro

1 5 10 15

Pro Val Ala Phe Thr Glu Val Leu Gln Ala Pro Ala Ile Arg Ile Pro

20 25 30

Pro Ser Ser Pro Leu Cys Gly Leu Gly Gly Ser Pro Arg Asp Gln Ala

35 40 45

Ser Gly Pro Asp Ala Ser Glu Gly Ala Thr Gly Pro Phe Leu Glu Pro

50 55 60

Ser Gln Gln Gln Ala Glu Ala Thr Trp Gly Val Ser Ser Glu Asn Gly

65 70 75 80

Gly Gly Leu Glu Ala Val Ser Gly Ser Glu Glu Leu Leu Gly Glu Asp

85 90 95

Thr Ile Asp Gln Glu Leu Glu Gln Leu Tyr Leu Ser His Leu Ser Arg

100 105 110

Leu Arg Ala Ala Val Ala Ala Gly Gly Ala Gly Gly Gly Gly Glu Gly

115 120 125

Ser Thr Asp Gly Gly Met Ser Pro Ser His Pro Leu Gly Ile Leu Thr

130 135 140

Asp Arg Asp Leu Ile Leu Lys Trp Pro Gly Pro Glu Arg Ala Leu Asn

145 150 155 160

Ser Ala Leu Ala Glu Glu Ile Thr Leu His Tyr Ala Arg Leu Gly Arg

165 170 175

Gly Val Glu Leu Ile Lys Asp Thr Glu Asp Pro Asp Asp Glu Gly Glu

180 185 190
Gly Glu Glu Gly Leu Ser Val Thr Pro Ser Ser Pro Glu Gly Asp Ser
195 200 205
Pro Lys Glu Ser Pro Pro Glu Ile Leu Ser Gly Ala Arg Ser Val Val
210 215 220
Ala Thr Met Gly Asp Val Trp Leu Pro Trp Ala Glu Gly Ser Gly Cys
225 230 235 240
Asp Gly Pro Val Val Leu Gly Thr Glu Gly Gln Phe Ile Gly Asp Pro
245 250 255
Glu Lys Gly Met Gly Lys Asp Thr Ser Ser Leu His Met Asn Arg Val
260 265 270
Ile Ala Gly Val Thr Glu Ser Leu Gly Glu Ala Gly Thr Glu Ala Gln
275 280 285
Ile Glu Val Thr Ser Glu Trp Ala Gly Ser Leu Asp Pro Ile Ser Gly
290 295 300
Lys Glu Pro Ala Ser Pro Val Leu Leu Gln Gly Gln Asn Pro Thr Leu
305 310 315 320
Leu Ser Pro Leu Gly Ala Glu Val Cys Leu Ser Ser Val Ala Arg Pro
325 330 335
His Val Ser Ser Gln Asp Glu Lys Asp Ala Gly Pro Ser Leu Glu Pro
340 345 350
Pro Lys Lys Ser Pro Thr Leu Ala Val Pro Ala Glu Cys Val Cys Ala
355 360 365
Leu Pro Pro Gln Leu Arg Gly Pro Leu Thr Gln Thr Leu Gly Val Leu
370 375 380
Ala Gly Leu Val Val Val Pro Val Ala Leu Asn Ser Gly Val Ser Leu
385 390 395 400
Leu Val Leu Ala Leu Cys Leu Ser Leu Ala Trp Phe Ser
405 410

<210> 2417

<211> 693

<212> PRT

<213> Homo sapiens

<400> 2417

Met His Ser Ser His Leu Asn Lys His Glu Lys Ile His Thr Gly Glu

1 5 10 15

Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Val Ile Ser Ser Ser Ser

20 25 30

Ser Phe Ala Lys His Lys Arg Ile His Thr Gly Glu Lys Pro Phe Lys

35 40 45

Cys Leu Glu Cys Ser Lys Ala Phe Asn Ile Ser Thr Thr Leu Thr Lys

50 55 60

His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Thr Cys Glu Val Cys

65 70 75 80

Gly Lys Ala Phe Arg Gln Ser Ala Asn Leu Tyr Val His Arg Arg Ile

85 90 95

His Thr Gly Glu Lys Pro Tyr Thr Cys Gly Glu Cys Gly Lys Thr Phe

100 105 110

Arg Gln Ser Ala Asn Leu Tyr Val His Arg Arg Ile His Thr Gly Glu

115 120 125

Lys Pro Tyr Lys Cys Glu Asp Cys Gly Lys Ala Phe Gly Arg Tyr Thr

130 135 140

Ala Leu Asn Gln His Lys Lys Ile His Thr Gly Glu Lys Pro Tyr Lys

145 150 155 160

Cys Glu Glu Cys Gly Lys Ala Phe Asn Ser Ser Thr Asn Leu Thr Ala

165	170	175
His Lys Arg Ile His Thr Arg Glu Lys Pro Tyr Thr Cys Glu Asp Arg		
180	185	190
Gly Arg Ala Phe Gly Leu Ser Thr Asn Leu Asn Glu Tyr Lys Lys Ile		
195	200	205
His Thr Gly Asp Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe		
210	215	220
Ile His Ser Leu His Leu Asn Lys His Glu Lys Ile His Thr Gly Lys		
225	230	235
Lys Pro Tyr Lys Cys Lys Gln Cys Gly Lys Val Ile Thr Ser Ser Ser		
245	250	255
Ser Phe Ala Lys His Lys Arg Ile His Thr Gly Glu Lys Pro Phe Glu		
260	265	270
Cys Leu Glu Cys Gly Lys Ala Phe Thr Ser Ser Thr Thr Leu Thr Lys		
275	280	285
His Arg Gly Ile His Thr Gly Glu Lys Pro Tyr Thr Cys Glu Val Cys		
290	295	300
Gly Lys Ala Phe Arg Gln Ser Ala Ile Leu Tyr Val His Arg Arg Ile		
305	310	315
His Thr Gly Glu Lys Pro Tyr Thr Cys Glu Glu Cys Gly Lys Thr Phe		
325	330	335
Arg Gln Ser Ala Asn Leu Tyr Val His Arg Arg Ile His Thr Gly Glu		
340	345	350
Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Gly Arg Tyr Thr		
355	360	365
Asp Leu Asn Gln His Lys Lys Ile His Thr Gly Glu Lys Leu Tyr Lys		
370	375	380
Cys Glu Glu Cys Gly Lys Asp Phe Val Trp Tyr Thr Asp Leu Asn Gln		
385	390	395
		400

Gln Lys Lys Ile Tyr Thr Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys
405 410 415
Gly Lys Ala Phe Ala Pro Ser Thr Asp Leu Asn Gln His Thr Lys Ile
420 425 430
Leu Thr Gly Glu Gln Ser Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe
435 440 445
Gly Trp Ser Ile Ala Leu Asn Gln His Lys Lys Ile His Thr Gly Glu
450 455 460
Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Ser Arg Ser Arg
465 470 475 480
Asn Leu Thr Thr His Arg Arg Val His Thr Arg Glu Lys Pro Tyr Lys
485 490 495
Cys Glu Asp Arg Gly Arg Ser Phe Gly Trp Ser Thr Asn Leu Asn Glu
500 505 510
Tyr Lys Lys Ile His Thr Gly Asp Lys Leu Tyr Lys Cys Lys Glu Cys
515 520 525
Gly Lys Val Phe Lys Gln Ser Ser His Leu Asn Arg His Glu Lys Ile
530 535 540
His Thr Gly Lys Lys Pro Tyr Lys Cys Lys Glu Cys Gly Glu Val Ile
545 550 555 560
Thr Ser Ser Ser Ser Leu Ala Lys His Lys Arg Ile His Thr Gly Glu
565 570 575
Lys Pro Phe Lys Cys Leu Glu Cys Gly Lys Ala Phe Thr Ser Ser Thr
580 585 590
Thr Leu Thr Lys His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Thr
595 600 605
Cys Glu Glu Cys Gly Lys Ala Phe Arg Gln Ser Ala Ile Leu Tyr Val
610 615 620
His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Thr Cys Gly Glu Cys

625 630 635 640
 Gly Lys Thr Phe Arg Gln Ser Ala Asn Leu Tyr Ala His Lys Lys Ile
 645 650 655
 His Thr Gly Glu Lys Pro Tyr Thr Cys Gly Asp Cys Gly Lys Thr Phe
 660 665 670
 Arg Gln Ser Ala Asn Leu Tyr Ala His Lys Lys Ile His Thr Gly Asp
 675 680 685
 Lys Thr Ile Gln Val
 690

<210> 2418

<211> 147

<212> PRT

<213> Homo sapiens

<400> 2418

Met Cys Pro Cys Val Gln Pro His Leu Pro Ala Glu Phe Pro Ala Lys
 1 5 10 15
 Thr Leu Pro Cys Ser Leu Cys Gly Ser Gly Ile Arg Met Gly Ala Ala
 20 25 30
 Arg Lys Ala Cys Val Cys Leu Val Met Phe Gly Ala Ser Pro Gly Arg
 35 40 45
 Leu Arg Ser Gln Asp Trp Gln His Pro Glu Ser Gln Ser Leu Val Cys
 50 55 60
 Leu Met Val Asp Ala Ala Cys Trp Val Gly Pro Lys Leu Gly Leu Ser
 65 70 75 80
 Ala Arg Thr Pro Thr His Asp Leu Cys Lys Trp Pro Gly Leu Pro Ser
 85 90 95

Asn Met Val Ala Gly Phe Gln Gly Gln Ala Ser His Glu Arg Gly Thr
 100 105 110
 Trp Leu Gly Arg Ser Leu Val Ser Ser Val Thr Leu Pro Gln Arg Thr
 115 120 125
 Gln Ser Val Asn Phe Thr Pro Ser Val Val Asn Thr Val Arg Val Pro
 130 135 140
 Leu Arg Val
 145

<210> 2419

<211> 899

<212> PRT

<213> Homo sapiens

<400> 2419

Met Glu Gln Val Val Ser Asn Phe Pro Pro Gly Ser Ser Gly Ala Leu
 1 5 10 15
 Gln Thr Gln Ala Pro Gln Gly Leu Lys Glu Pro Ser Ile Asn Glu Tyr
 20 25 30
 Ser Phe Pro Ser Ala Leu Cys Gly Met Thr Gln Val Ala Ser Ala Val
 35 40 45
 Ala Val Cys Gly Leu Gly Glu Arg Glu Glu Val Thr Cys Ser Val Ala
 50 55 60
 Pro Ser Gly Ser Leu Pro Pro Ala Ala Glu Ala Ser Glu Ala Met Pro
 65 70 75 80
 Pro Leu Cys Gly Leu Ala Ser Met Glu Leu Gly Lys Glu Ala Ile Ala
 85 90 95
 Glu Gly Leu Leu Lys Glu Ala Ala Leu Val Leu Thr Arg Pro Asn Thr

100	105	110
Tyr Ser Ser Ile Gly Asp Phe Leu Asp Ser Met Asn Arg Arg Ile Met		
115	120	125
Glu Thr Ala Ser Lys Ser Gln Thr Leu Cys Ser Glu Asn Val Val Arg		
130	135	140
Asn Glu Leu Ala His Thr Leu Ser Asn Val Ile Leu Arg His Ser Ile		
145	150	155
160		
Asp Glu Val His His Lys Asn Met Ile Ile Asp Pro Asn Asp Asn Arg		
165	170	175
His Ser Ser Glu Ile Leu Asp Thr Leu Met Glu Ser Thr Asn Gln Leu		
180	185	190
Leu Leu Asp Val Ile Cys Phe Thr Phe Lys Lys Met Ser His Ile Val		
195	200	205
Arg Leu Gly Glu Cys Pro Ala Val Leu Ser Lys Glu Thr Ile Arg Arg		
210	215	220
Arg Glu Thr Glu Pro Ser Cys Gln Pro Ser Asp Pro Gly Ala Ser Gln		
225	230	235
240		
Ala Trp Thr Lys Ala Thr Glu Ser Ser Ser Ser Ser Pro Leu Ser Asn		
245	250	255
Ser His Asn Thr Ser Leu Val Ile Asn Asn Leu Val Asp Gly Met Tyr		
260	265	270
Ser Lys Gln Asp Lys Gly Gly Val Arg Pro Gly Leu Phe Lys Asn Pro		
275	280	285
Thr Leu Gln Ser Gln Leu Ser Arg Ser His Arg Val Pro Asp Ser Ser		
290	295	300
Thr Ala Thr Thr Ser Ser Lys Glu Ile Tyr Leu Lys Gly Ile Ala Gly		
305	310	315
320		
Glu Asp Thr Lys Ser Pro His His Ser Glu Asn Glu Cys Arg Val Ser		
325	330	335

Ser Glu Gly Gln Arg Ser Pro Thr Val Ser Arg Ser Arg Ser Gly Ser
340 345 350
Gln Glu Ala Glu Glu Ser Ile His Pro Asn Thr Gln Glu Lys Tyr Asn
355 360 365
Cys Ala Thr Ser Arg Ile Asn Glu Val Gln Val Asn Leu Ser Leu Leu
370 375 380
Gly Asp Asp Leu Leu Leu Pro Ala Gln Ser Thr Leu Gln Thr Lys His
385 390 395 400
Pro Asp Ile Tyr Cys Ile Thr Asp Phe Ala Glu Glu Leu Ala Asp Thr
405 410 415
Val Val Ser Met Ala Thr Glu Ile Ala Ala Ile Cys Leu Asp Asn Ser
420 425 430
Ser Gly Lys Gln Pro Trp Phe Cys Ala Trp Lys Arg Gly Ser Glu Phe
435 440 445
Leu Met Thr Pro Asn Val Pro Cys Arg Ser Leu Lys Arg Lys Lys Glu
450 455 460
Ser Gln Gly Ser Gly Thr Ala Val Arg Lys His Lys Pro Pro Arg Leu
465 470 475 480
Ser Glu Ile Lys Arg Lys Thr Asp Glu His Pro Glu Leu Lys Glu Lys
485 490 495
Leu Met Asn Arg Val Val Asp Glu Ser Met Asn Leu Glu Asp Val Pro
500 505 510
Asp Ser Val Asn Leu Phe Ala Asn Glu Val Ala Ala Lys Ile Met Asn
515 520 525
Leu Thr Glu Phe Ser Met Val Asp Gly Met Trp Gln Ala Gln Gly Tyr
530 535 540
Pro Arg Asn Arg Leu Leu Ser Gly Asp Arg Trp Ser Arg Leu Lys Ala
545 550 555 560
Ser Ser Cys Glu Ser Ile Pro Glu Glu Asp Ser Glu Ala Arg Ala Tyr

565	570	575
Val Asn Ser Leu Gly Leu Met Ser Thr Leu Ser Gln Pro Val Ser Arg		
580	585	590
Ala Ser Ser Val Ser Lys Gln Ser Ser Cys Glu Ser Ile Thr Asp Glu		
595	600	605
Phe Ser Arg Phe Met Val Asn Gln Met Glu Asn Glu Gly Arg Gly Phe		
610	615	620
Glu Leu Leu Leu Asp Tyr Tyr Ala Gly Lys Asn Ala Ser Ser Ile Leu		
625	630	635
Asn Ser Ala Met Gln Gln Ala Cys Arg Lys Ser Asp His Leu Ser Val		
645	650	655
Arg Pro Ser Cys Pro Ser Lys Gln Ser Ser Thr Glu Ser Ile Thr Glu		
660	665	670
Glu Phe Tyr Arg Tyr Met Leu Arg Asp Ile Glu Arg Asp Ser Arg Glu		
675	680	685
Ser Ala Ser Ser Arg Arg Ser Ser Gln Asp Trp Thr Ala Gly Leu Leu		
690	695	700
Ser Pro Ser Leu Arg Ser Pro Val Cys His Arg Gln Ser Ser Met Pro		
705	710	715
Asp Ser Arg Ser Pro Cys Ser Arg Leu Thr Val Asn Val Pro Ile Lys		
725	730	735
Ala Asn Ser Leu Asp Gly Phe Ala Gln Asn Phe Pro Gln Asp Phe Leu		
740	745	750
Ser Val Gln Pro Val Ser Ser Ala Ser Ser Ser Gly Leu Cys Lys Ser		
755	760	765
Asp Ser Cys Leu Tyr Arg Arg Gly Gly Thr Asp His Ile Thr Asn Met		
770	775	780
Leu Ile His Glu Thr Trp Ala Ser Ser Ile Glu Ala Leu Met Arg Lys		
785	790	795
		800

Asn Lys Ile Ile Val Asp Asp Ala Glu Glu Ala Asp Thr Glu Pro Val
 805 810 815
 Ser Gly Gly Ser Pro Ser Gln Ala Glu Lys Cys Ala Asn Arg Leu Ala
 820 825 830
 Ala Ser Arg Met Cys Ser Gly Pro Thr Leu Leu Val Gln Glu Ser Leu
 835 840 845
 Asp Cys Pro Arg Lys Asp Ser Val Thr Glu Cys Lys Gln Pro Pro Val
 850 855 860
 Ser Ser Leu Ser Lys Thr Ala Ser Leu Thr Asn His Ser Pro Leu Asp
 865 870 875 880
 Ser Lys Lys Glu Thr Ser Ser Cys Gln Asp Pro Val Pro Ile Lys Pro
 885 890 895
 Leu Arg Pro

<210> 2420

<211> 156

<212> PRT

<213> Homo sapiens

<400> 2420

Met Ala Ala Arg Phe Trp Pro Pro Ala Gln Thr Ser Trp Leu Val His
 1 5 10 15
 Gly Val Phe Gly Leu Trp Gly Cys Pro Ser Cys Pro Leu Pro Leu Pro
 20 25 30
 Ala Pro Gly Gly His Cys Ser Cys Cys Asp Ser Trp Asp Gly Arg Thr
 35 40 45
 Leu Gly Phe Ser Gly His Gly Leu Cys Ser Ser Phe Pro Leu Leu Ser

50 55 60
Leu Pro Arg Asp Gly Ala Glu Gln Ala Pro Glu Ser Phe Cys Pro Ile
65 70 75 80
Pro Ala Val Pro Thr Gln Gly Ser Pro Gly Leu His Cys Phe Ser Pro
85 90 95
Gly His Pro Ala Arg Pro Ser Gly Leu Ala Leu Pro Leu Ala Gly Leu
100 105 110
Ala Leu Ala Thr Cys Pro His Cys Ala Cys Trp Gly Pro Ser Pro Ala
115 120 125
Pro Gln Val Trp Glu Gly Leu Ala Pro Gly Arg Ser Cys Thr Met Phe
130 135 140
Pro Gly Tyr Ser Ser Leu His Pro Cys Pro Leu Leu
145 150 155

<210> 2421

<211> 182

<212> PRT

<213> Homo sapiens

<400> 2421

Met Asp Leu Gln Arg Pro Asp Ser Tyr Gln Gly Gly Ala Gly Pro Asp
1 5 10 15
Phe Asn Asp His Val Leu His Lys Thr Ile Leu Val Gly Asp Ser Gly
20 25 30
Val Gly Lys Thr Ser Leu Leu Val Gln Phe Asp Gln Gly Lys Phe Ile
35 40 45
Pro Gly Ser Phe Ser Ala Thr Val Gly Ile Gly Phe Thr Asn Lys Val
50 55 60

Val Thr Val Asp Gly Val Arg Val Lys Leu Gln Ile Trp Asp Thr Ala
 65 70 75 80
 Gly Gln Glu Arg Phe Arg Ser Val Thr His Ala Tyr Tyr Arg Asp Ala
 85 90 95
 Gln Ala Leu Leu Leu Leu Tyr Asp Ile Thr Asn Lys Ser Ser Phe Asp
 100 105 110
 Asn Ile Arg Ala Trp Leu Thr Glu Ile His Glu Tyr Ala Gln Arg Asp
 115 120 125
 Val Val Ile Met Leu Leu Gly Asn Lys Ala Asp Met Ser Ser Glu Arg
 130 135 140
 Val Ile Arg Ser Glu Asp Gly Glu Thr Leu Ala Arg Glu Tyr Gly Val
 145 150 155 160
 Pro Phe Leu Glu Thr Ser Ala Lys Thr Gly Met Asn Val Glu Leu Ala
 165 170 175
 Phe Leu Ala Ile Ala Lys
 180

<210> 2422

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2422

Met Gly Cys Gln Asn Ser Ser Phe Trp Glu Leu Arg Arg Ala Leu Phe
 1 5 10 15
 Thr Glu Lys Lys Ser Arg Ala Leu Gly Leu Lys Gly Ser Phe Thr Ser
 20 25 30
 Tyr Gly Arg Asn Met Arg Leu Arg Lys Arg Cys Ile Phe Leu Phe Gln

35 40 45
 Arg Met Gln Phe Phe Phe Ser Ala Tyr Gln Ser Ile Thr Tyr Pro Leu
 50 55 60
 Glu Ile Ile Cys Lys Ile His Glu Ile Thr Lys Thr Leu Phe Asn Ser
 65 70 75 80
 Phe Gln Ser Ser Met Ser Ser Asn Asn His Tyr Leu Ser Leu Leu Cys
 85 90 95
 Ile Tyr Ser Glu Phe Leu Ser
 100

<210> 2423

<211> 1332

<212> PRT

<213> Homo sapiens

<400> 2423

Met Cys Phe Glu Trp Phe Thr Lys Gly Gln His Asp Leu Glu Ser Asp
 1 5 10 15
 Val Gln Gln Gln Leu Phe Lys Glu Lys Ile Leu Lys Leu Glu Ser Tyr
 20 25 30
 Glu Ile Thr Met Asn Gly Phe Asn Leu Phe Lys Thr Phe Phe Glu Asn
 35 40 45
 Val Asn Leu Cys Asp His Arg Leu Lys Arg Gln Gly Ala Gln Leu Tyr
 50 55 60
 Val Glu Lys Leu Glu Leu Ile Gly Met Asp Phe Ile Trp Lys Ile Ala
 65 70 75 80
 Met Glu Ser Pro Asp Glu Glu Ile Ala Ser Glu Ala Ile Gln Leu Ile
 85 90 95

Ile Asn Tyr Ser Tyr Ile Asn Leu Asn Pro Arg Leu Lys Lys Asp Ser
100 105 110
Val Ser Leu His Lys Lys Phe Ile Ala Asp Cys Tyr Thr Arg Leu Glu
115 120 125
Ala Ala Ser Ser Ala Leu Gly Gly Pro Thr Leu Thr His Ala Val Thr
130 135 140
Arg Ala Thr Lys Met Leu Thr Ala Thr Ala Met Pro Thr Val Ala Thr
145 150 155 160
Ser Val Gln Ser Pro Tyr Arg Ser Thr Lys Leu Val Ile Ile Glu Arg
165 170 175
Leu Leu Leu Leu Ala Glu Arg Tyr Val Ile Thr Ile Glu Asp Phe Tyr
180 185 190
Ser Val Pro Arg Thr Ile Leu Pro His Gly Ala Ser Phe His Gly His
195 200 205
Leu Leu Thr Leu Asn Val Thr Tyr Glu Ser Thr Lys Asp Thr Phe Thr
210 215 220
Val Glu Ala His Ser Asn Glu Thr Ile Gly Ser Val Arg Trp Lys Leu
225 230 235 240
Ala Lys Gln Leu Cys Ser Pro Val Asp Asn Ile Gln Ile Phe Thr Asn
245 250 255
Asp Ser Leu Leu Thr Val Asn Lys Asp Gln Lys Leu Leu His Gln Leu
260 265 270
Gly Phe Ser Asp Glu Gln Ile Leu Thr Val Lys Thr Ser Gly Ser Gly
275 280 285
Thr Pro Ser Gly Ser Ser Ala Asp Ser Ser Thr Ser Ser Ser Ser Ser
290 295 300
Ser Ser Gly Val Phe Ser Ser Ser Tyr Ala Met Glu Gln Glu Lys Ser
305 310 315 320
Leu Pro Gly Val Val Met Ala Leu Val Cys Asn Val Phe Asp Met Leu

	325	330	335
Tyr Gln Leu Ala Asn Leu Glu Glu Pro Arg Ile Thr Leu Arg Val Arg			
	340	345	350
Lys Leu Leu Leu Leu Ile Pro Thr Asp Pro Ala Ile Gln Glu Ala Leu			
	355	360	365
Asp Gln Leu Asp Ser Leu Gly Arg Lys Lys Thr Leu Leu Ser Glu Ser			
	370	375	380
Ser Ser Gln Ser Ser Lys Ser Pro Ser Leu Ser Ser Lys Gln Gln His			
385	390	395	400
Gln Pro Ser Ala Ser Ser Ile Leu Glu Ser Leu Phe Arg Ser Phe Ala			
	405	410	415
Pro Gly Met Ser Thr Phe Arg Val Leu Tyr Asn Leu Glu Val Leu Ser			
	420	425	430
Ser Lys Leu Met Pro Thr Ala Asp Asp Asp Met Ala Arg Ser Cys Ala			
	435	440	445
Lys Ser Phe Cys Glu Asn Phe Leu Lys Ala Gly Gly Leu Ser Leu Val			
	450	455	460
Val Asn Val Met Gln Arg Asp Ser Ile Pro Ser Glu Val Asp Tyr Glu			
465	470	475	480
Thr Arg Gln Gly Val Tyr Ser Ile Cys Leu Gln Leu Ala Arg Phe Leu			
	485	490	495
Leu Val Gly Gln Thr Met Ser Thr Leu Leu Asp Glu Asp Leu Thr Lys			
	500	505	510
Asp Gly Ile Glu Ala Leu Ser Ser Arg Pro Phe Arg Asn Val Ser Arg			
	515	520	525
Gln Thr Ser Arg Gln Met Ser Leu Cys Gly Thr Pro Glu Lys Ser Ser			
	530	535	540
Tyr Arg Gln Leu Ser Val Ser Asp Arg Ser Ser Ile Arg Val Glu Glu			
545	550	555	560

Ile Ile Pro Ala Ala Arg Val Ala Ile Gln Thr Met Glu Val Ser Asp			
565	570	575	
Phe Thr Ser Thr Val Ala Cys Phe Met Arg Leu Ser Trp Ala Ala Ala			
580	585	590	
Ala Gly Arg Leu Asp Leu Val Gly Ser Ser Gln Pro Ile Lys Glu Ser			
595	600	605	
Asn Ser Leu Cys Pro Ala Gly Ile Arg Asn Arg Leu Ser Ser Ser Gly			
610	615	620	
Ser Asn Cys Ser Ser Gly Ser Glu Gly Glu Pro Val Ala Leu His Ala			
625	630	635	640
Gly Ile Cys Val Arg Gln Gln Ser Val Ser Thr Lys Asp Ser Leu Ile			
645	650	655	
Ala Gly Glu Ala Leu Ser Leu Leu Val Thr Cys Leu Gln Leu Arg Ser			
660	665	670	
Gln Gln Leu Ala Ser Phe Tyr Asn Leu Pro Cys Val Ala Asp Phe Ile			
675	680	685	
Ile Asp Ile Leu Leu Gly Ser Pro Ser Ala Glu Ile Arg Arg Val Ala			
690	695	700	
Cys Asp Gln Leu Tyr Thr Leu Ser Gln Thr Asp Thr Ser Ala His Pro			
705	710	715	720
Asp Val Gln Lys Pro Asn Gln Phe Leu Leu Gly Val Ile Leu Thr Ala			
725	730	735	
Gln Leu Pro Leu Trp Ser Pro Thr Ser Ile Met Arg Gly Val Asn Gln			
740	745	750	
Arg Leu Leu Ser Gln Cys Met Glu Tyr Phe Asp Leu Arg Cys Gln Leu			
755	760	765	
Leu Asp Asp Leu Thr Thr Ser Glu Met Glu Gln Leu Arg Ile Ser Pro			
770	775	780	
Ala Thr Met Leu Glu Asp Glu Ile Thr Trp Leu Asp Asn Phe Glu Pro			

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Tyr Gly Phe Phe Thr Ser Leu Ile Asp Gln Met Asp Glu Tyr Leu Lys
1025 1030 1035 1040
Lys Met Gly Arg Asp Gln Ile Phe Lys Asn Thr Phe Gln Gly Ile Tyr
1045 1050 1055
Ser Asp Gln Lys Ile Cys Lys Asp Cys Pro His Arg Tyr Glu Arg Glu
1060 1065 1070
Glu Ala Phe Met Ala Leu Asn Leu Gly Val Thr Ser Cys Gln Ser Leu
1075 1080 1085
Glu Ile Ser Leu Asp Gln Phe Val Arg Gly Glu Val Leu Glu Gly Ser
1090 1095 1100
Asn Ala Tyr Tyr Cys Glu Lys Cys Lys Glu Lys Arg Ile Thr Val Lys
1105 1110 1115 1120
Arg Thr Cys Ile Lys Ser Leu Pro Ser Val Leu Val Ile His Leu Met
1125 1130 1135
Arg Phe Gly Phe Asp Trp Glu Ser Gly Arg Ser Ile Lys Tyr Asp Glu
1140 1145 1150
Gln Ile Arg Phe Pro Trp Met Leu Asn Met Glu Pro Tyr Thr Val Ser
1155 1160 1165
Gly Met Ala Arg Gln Asp Ser Ser Ser Glu Val Gly Glu Asn Gly Arg
1170 1175 1180
Ser Val Asp Gln Gly Gly Gly Gly Ser Pro Arg Lys Lys Val Ala Leu
1185 1190 1195 1200
Thr Glu Asn Tyr Glu Leu Val Gly Val Ile Val His Ser Gly Gln Ala
1205 1210 1215
His Ala Gly His Tyr Tyr Ser Phe Ile Lys Asp Arg Arg Gly Cys Gly
1220 1225 1230
Lys Gly Lys Trp Tyr Lys Phe Asn Asp Thr Val Ile Glu Glu Phe Asp
1235 1240 1245
Leu Asn Asp Glu Thr Leu Glu Tyr Glu Cys Phe Gly Gly Glu Tyr Arg

1250 1255 1260
 Pro Lys Val Tyr Asp Gln Thr Asn Pro Tyr Thr Asp Val Arg Arg Arg
 1265 1270 1275 1280
 Tyr Trp Asn Ala Tyr Met Leu Phe Tyr Gln Arg Val Ser Asp Gln Asn
 1285 1290 1295
 Ser Pro Val Leu Pro Lys Lys Ser Arg Val Ser Val Val Arg Gln Glu
 1300 1305 1310
 Ala Glu Asp Leu Ser Leu Ser Ala Pro Ser Ser Pro Glu Ile Ser Pro
 1315 1320 1325
 Gln Ser Ser Pro
 1330

<210> 2424

<211> 1162

<212> PRT

<213> Homo sapiens

<400> 2424

Met Arg Leu Glu Glu Gln Lys Lys Lys Leu Ala Phe Leu Leu Lys Asp
 1 5 10 15
 Trp Glu Glu Cys Glu Lys Gly Ile Ala Asp Ser Leu Glu Lys Leu Arg
 20 25 30
 Thr Phe Lys Lys Lys Leu Ser Gln Ser Leu Pro Asp His His Glu Glu
 35 40 45
 Leu His Ala Glu Gln Met Arg Cys Lys Glu Leu Glu Asn Ala Val Gly
 50 55 60
 Ser Trp Thr Asp Asp Leu Thr Gln Leu Ser Leu Leu Lys Asp Thr Leu
 65 70 75 80

Ser Ala Tyr Ile Ser Ala Asp Asp Ile Ser Ile Leu Asn Glu Arg Val
 85 90 95
 Glu Leu Leu Gln Arg Gln Trp Glu Glu Leu Cys His Gln Leu Ser Leu
 100 105 110
 Arg Arg Gln Gln Ile Gly Glu Arg Leu Asn Glu Trp Ala Val Phe Ser
 115 120 125
 Glu Lys Asn Lys Glu Leu Cys Glu Trp Leu Thr Gln Met Glu Ser Lys
 130 135 140
 Val Ser Gln Asn Gly Asp Ile Leu Ile Glu Glu Met Ile Glu Lys Leu
 145 150 155 160
 Lys Lys Asp Tyr Gln Glu Glu Ile Ala Ile Ala Gln Glu Asn Lys Ile
 165 170 175
 Arg Leu Gln Gln Met Gly Glu Arg Leu Ala Lys Ala Ser His Glu Ser
 180 185 190
 Lys Ala Ser Glu Ile Glu Tyr Lys Leu Gly Lys Val Asn Asp Arg Trp
 195 200 205
 Gln His Leu Leu Asp Leu Ile Ala Ala Arg Val Lys Lys Leu Lys Glu
 210 215 220
 Thr Leu Val Ala Val Gln Gln Leu Asp Lys Asn Met Ser Ser Leu Arg
 225 230 235 240
 Thr Trp Leu Ala His Ile Glu Ser Glu Leu Ala Lys Pro Ile Val Tyr
 245 250 255
 Asp Ser Cys Asn Ser Glu Glu Ile Gln Arg Lys Leu Asn Glu Gln Gln
 260 265 270
 Glu Leu Gln Arg Asp Ile Glu Lys His Ser Thr Gly Val Ala Ser Val
 275 280 285
 Leu Asn Leu Cys Glu Val Leu Leu His Asp Cys Asp Ala Cys Ala Thr
 290 295 300
 Asp Ala Glu Cys Asp Ser Ile Gln Gln Ala Thr Arg Asn Leu Asp Arg

305 310 315 320
Arg Trp Arg Asn Ile Cys Ala Met Ser Met Glu Arg Arg Leu Lys Ile
 325 330 335
Glu Glu Thr Trp Arg Leu Trp Gln Lys Phe Leu Asp Asp Tyr Ser Arg
 340 345 350
Phe Glu Asp Trp Leu Lys Ser Ser Glu Arg Thr Ala Ala Phe Pro Ser
 355 360 365
Ser Ser Gly Val Ile Tyr Thr Val Ala Lys Glu Glu Leu Lys Lys Phe
 370 375 380
Glu Ala Phe Gln Arg Gln Val His Glu Cys Leu Thr Gln Leu Glu Leu
385 390 395 400
Ile Asn Lys Gln Tyr Arg Arg Leu Ala Arg Glu Asn Arg Thr Asp Ser
 405 410 415
Ala Cys Ser Leu Lys Gln Met Val His Glu Gly Asn Gln Arg Trp Asp
 420 425 430
Asn Leu Gln Lys Arg Val Thr Ser Ile Leu Arg Arg Leu Lys His Phe
 435 440 445
Ile Gly Gln Arg Glu Glu Phe Glu Thr Ala Arg Asp Ser Ile Leu Val
 450 455 460
Trp Leu Thr Glu Met Asp Leu Gln Leu Thr Asn Ile Glu His Phe Ser
465 470 475 480
Glu Cys Asp Val Gln Ala Lys Ile Lys Gln Leu Lys Ala Phe Gln Gln
 485 490 495
Glu Ile Ser Leu Asn His Asn Lys Ile Glu Gln Ile Ile Ala Gln Gly
 500 505 510
Glu Gln Leu Ile Glu Lys Ser Glu Pro Leu Asp Ala Ala Ile Ile Glu
 515 520 525
Glu Glu Leu Asp Glu Leu Arg Arg Tyr Cys Gln Glu Val Phe Gly Arg
 530 535 540

Val Glu Arg Tyr His Lys Lys Leu Ile Arg Leu Pro Leu Pro Asp Asp
545 550 555 560
Glu His Asp Leu Ser Asp Arg Glu Leu Glu Leu Glu Asp Ser Ala Ala
565 570 575
Leu Ser Asp Leu His Trp His Asp Arg Ser Ala Asp Ser Leu Leu Ser
580 585 590
Pro Gln Pro Ser Ser Asn Leu Ser Leu Ser Leu Ala Gln Pro Leu Arg
595 600 605
Ser Glu Arg Ser Gly Arg Asp Thr Pro Ala Ser Val Asp Ser Ile Pro
610 615 620
Leu Glu Trp Asp His Asp Tyr Asp Leu Ser Arg Asp Leu Glu Ser Ala
625 630 635 640
Met Ser Arg Ala Leu Pro Ser Glu Asp Glu Glu Gly Gln Asp Asp Lys
645 650 655
Asp Phe Tyr Leu Arg Gly Ala Val Gly Leu Ser Asp Val Met Ile Pro
660 665 670
Glu Ser Pro Glu Ala Tyr Val Lys Leu Thr Glu Asn Ala Ile Lys Asn
675 680 685
Thr Ser Gly Asp His Ser Ala Leu Glu Ser Gln Ile Arg Gln Leu Gly
690 695 700
Lys Ala Leu Asp Asp Ser Arg Phe Gln Ile Gln Gln Thr Glu Asn Ile
705 710 715 720
Ile Arg Ser Lys Thr Pro Thr Gly Pro Glu Leu Asp Thr Ser Tyr Lys
725 730 735
Gly Tyr Met Lys Leu Leu Gly Glu Cys Ser Ser Ser Ile Asp Ser Val
740 745 750
Lys Arg Leu Glu His Lys Leu Lys Glu Glu Glu Glu Ser Leu Pro Gly
755 760 765
Phe Val Asn Leu His Ser Thr Glu Thr Gln Thr Ala Gly Val Ile Asp

770	775	780
Arg Trp Glu Leu Leu Gln Ala Gln Ala Leu Ser Lys Glu Leu Arg Met		
785	790	795
Lys Gln Asn Leu Gln Lys Trp Gln Gln Phe Asn Ser Asp Leu Asn Ser		800
	805	810
Ile Trp Ala Trp Leu Gly Asp Thr Glu Glu Glu Leu Glu Gln Leu Gln		815
	820	825
Arg Leu Glu Leu Ser Thr Asp Ile Gln Thr Ile Glu Leu Gln Ile Lys		830
	835	840
Lys Leu Lys Glu Leu Gln Lys Ala Val Asp His Arg Lys Ala Ile Ile		845
	850	855
Leu Ser Ile Asn Leu Cys Ser Pro Glu Phe Thr Gln Ala Asp Ser Lys		860
865	870	875
Glu Ser Arg Asp Leu Gln Asp Arg Leu Ser Gln Met Asn Gly Arg Trp		880
	885	890
Asp Arg Val Cys Ser Leu Leu Glu Glu Trp Arg Gly Leu Leu Gln Asp		895
	900	905
Ala Leu Met Gln Cys Gln Gly Phe His Glu Met Ser His Gly Leu Leu		910
	915	920
Leu Met Leu Glu Asn Ile Asp Arg Arg Lys Asn Glu Ile Val Pro Ile		925
	930	935
Asp Ser Asn Leu Asp Ala Glu Ile Leu Gln Asp His His Lys Gln Leu		940
945	950	955
Met Gln Ile Lys His Glu Leu Leu Glu Ser Gln Leu Arg Val Ala Ser		960
	965	970
Leu Gln Asp Met Ser Cys Gln Leu Leu Val Asn Ala Glu Gly Thr Asp		975
	980	985
Cys Leu Glu Ala Lys Glu Lys Val His Val Ile Gly Asn Arg Leu Lys		990
	995	1000
		1005

Leu Leu Leu Lys Glu Val Ser Arg His Ile Lys Glu Leu Glu Lys Leu

1010

1015

1020

Leu Asp Val Ser Ser Ser Gln Gln Asp Leu Ser Ser Trp Ser Ser Ala

1025

1030

1035

1040

Asp Glu Leu Asp Thr Ser Gly Ser Val Ser Pro Thr Ser Gly Arg Ser

1045

1050

1055

Thr Pro Asn Arg Gln Lys Thr Pro Arg Gly Lys Cys Ser Leu Ser Gln

1060

1065

1070

Pro Gly Pro Ser Val Ser Ser Pro His Ser Arg Ser Thr Lys Gly Gly

1075

1080

1085

Ser Asp Ser Ser Leu Ser Glu Pro Gly Pro Gly Arg Ser Gly Arg Gly

1090

1095

1100

Phe Leu Phe Arg Val Leu Arg Ala Ala Leu Pro Leu Gln Leu Leu Leu

1105

1110

1115

1120

Leu Leu Leu Ile Gly Leu Ala Cys Leu Val Pro Met Ser Glu Glu Asp

1125

1130

1135

Tyr Ser Cys Ala Leu Ser Asn Asn Phe Ala Arg Ser Phe His Pro Met

1140

1145

1150

Leu Arg Tyr Thr Asn Gly Pro Pro Pro Leu

1155

1160

<210> 2425

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2425

Met Lys Ile His Ser Val Lys Gly Gln Arg Cys Pro Asp His Thr Pro

1	5	10	15
Lys Ser Ser Lys Pro Ala Ser Arg Thr Trp Ser Arg Arg Ala Gly Gly			
20	25	30	
Ser Val Asn Ile Arg Gly Thr Leu Leu Ile Leu Gly Pro Ser Ser Thr			
35	40	45	
Ser Cys Gly Ser Ile Thr Lys Asp Ser Arg Thr Arg Leu Ile Ser Gln			
50	55	60	
Thr Trp Glu His Cys His Cys His Ser Gly Ala Tyr Met Asp Lys Thr			
65	70	75	80
Lys Leu Ala Trp Leu Phe Gly Pro Gly Val Pro Phe Pro Arg Ile Leu			
85	90	95	
Arg Ala Phe Cys Gly Asn Leu Ser Leu Lys Val Lys Asn Asn Ser			
100	105	110	

<210> 2426

<211> 844

<212> PRT

<213> Homo sapiens

<400> 2426

Met Pro Lys Thr Glu Pro Lys Gly Ala Asp Pro Glu Ser Pro Arg Arg			
1	5	10	15
Glu Glu Met Gly Cys Asn Ala Asp Gln Glu Ser Gln Ser Gly Pro Gly			
20	25	30	
Val Pro Gln Thr Gln Gly Gly Glu Val Lys Pro Lys Ser Pro Glu Thr			
35	40	45	
Ala Leu Glu Ala Phe Lys Ala Leu Phe Ile Arg Pro Pro Arg Lys Gly			
50	55	60	

Thr Thr Ala Asp Thr Ser Glu Leu Glu Ala Leu Lys Arg Lys Met Arg
65 70 75 80
His Glu Lys Glu Ser Leu Arg Ala Val Phe Glu Arg Ser Asn Ser Lys
85 90 95
Pro Ala Asp Gly Pro Ser Asp Ser Lys Ser Pro Asp His Ser Pro Thr
100 105 110
Glu Gln Asp Asp Arg Thr Pro Gly Arg Leu Gln Ala Val Trp Pro Pro
115 120 125
Pro Lys Thr Lys Asp Thr Glu Glu Lys Val Gly Leu Lys Tyr Thr Glu
130 135 140
Ala Glu Tyr Gln Ala Ala Ile Leu His Leu Lys Arg Glu His Lys Glu
145 150 155 160
Glu Ile Glu Asn Leu Gln Ala Gln Phe Glu Leu Arg Ala Phe His Ile
165 170 175
Arg Gly Glu His Ala Met Ile Thr Ala Arg Leu Glu Glu Thr Ile Glu
180 185 190
Asn Leu Lys His Glu Leu Glu His Arg Trp Arg Gly Gly Cys Glu Glu
195 200 205
Arg Lys Asp Val Cys Ile Ser Thr Asp Asp Asp Cys Pro Pro Lys Thr
210 215 220
Phe Arg Asn Val Cys Val Gln Thr Asp Arg Glu Thr Phe Leu Lys Pro
225 230 235 240
Cys Glu Ser Glu Ser Lys Thr Thr Arg Ser Asn Gln Leu Val Pro Lys
245 250 255
Lys Leu Asn Ile Ser Ser Leu Ser Gln Leu Ser Pro Pro Asn Asp His
260 265 270
Lys Asp Ile His Ala Ala Leu Gln Pro Met Glu Gly Met Ala Ser Asn
275 280 285
Gln Gln Lys Ala Leu Pro Pro Pro Pro Ala Ser Ile Pro Pro Pro Pro

290 295 300
Pro Leu Pro Ser Gly Leu Gly Ser Leu Ser Pro Ala Pro Pro Met Pro
305 310 315 320
Pro Val Ser Ala Gly Pro Pro Leu Pro Pro Pro Pro Pro Pro Pro
325 330 335
Pro Leu Pro Pro Pro Ser Ser Ala Gly Pro Pro Pro Pro Pro Pro
340 345 350
Pro Pro Leu Pro Asn Ser Pro Ala Pro Pro Asn Pro Gly Gly Pro Pro
355 360 365
Pro Ala Pro Pro Pro Pro Gly Leu Ala Pro Pro Pro Pro Pro Gly Leu
370 375 380
Phe Phe Gly Leu Gly Ser Ser Ser Ser Gln Cys Pro Arg Lys Pro Ala
385 390 395 400
Ile Glu Pro Ser Cys Pro Met Lys Pro Leu Tyr Trp Thr Arg Ile Gln
405 410 415
Ile Ser Asp Arg Ser Gln Asn Ala Thr Pro Thr Leu Trp Asp Ser Leu
420 425 430
Glu Glu Pro Asp Ile Arg Asp Pro Ser Glu Phe Glu Tyr Leu Phe Ser
435 440 445
Lys Asp Thr Thr Gln Gln Lys Lys Lys Pro Leu Ser Glu Thr Tyr Glu
450 455 460
Lys Lys Asn Lys Val Lys Lys Ile Ile Lys Leu Leu Asp Gly Lys Arg
465 470 475 480
Ser Gln Thr Val Gly Ile Leu Ile Ser Ser Leu His Leu Glu Met Lys
485 490 495
Asp Ile Gln Gln Ala Ile Phe Asn Val Asp Asp Ser Val Val Asp Leu
500 505 510
Glu Thr Leu Ala Ala Leu Tyr Glu Asn Arg Ala Gln Glu Asp Glu Leu
515 520 525

Val Lys Ile Arg Lys Tyr Tyr Glu Thr Ser Lys Glu Glu Glu Leu Lys
530 535 540
Leu Leu Asp Lys Pro Glu Gln Phe Leu His Glu Leu Ala Gln Ile Pro
545 550 555 560
Asn Phe Ala Glu Arg Ala Gln Cys Ile Ile Phe Arg Ser Val Phe Ser
565 570 575
Glu Gly Ile Thr Ser Leu His Arg Lys Val Glu Ile Ile Thr Arg Ala
580 585 590
Ser Lys Asp Leu Leu His Val Lys Ser Val Lys Asp Ile Leu Ala Leu
595 600 605
Ile Leu Ala Phe Gly Asn Tyr Met Asn Gly Gly Asn Arg Thr Arg Gly
610 615 620
Gln Ala Asp Gly Tyr Ser Leu Glu Ile Leu Pro Lys Leu Lys Asp Val
625 630 635 640
Lys Ser Arg Asp Asn Gly Ile Asn Leu Val Asp Tyr Val Val Lys Tyr
645 650 655
Tyr Leu Arg Tyr Tyr Asp Gln Glu Ala Gly Thr Glu Lys Ser Val Phe
660 665 670
Pro Leu Pro Glu Pro Gln Asp Phe Phe Leu Ala Ser Gln Val Lys Phe
675 680 685
Glu Asp Leu Ile Lys Asp Leu Arg Lys Leu Lys Arg Gln Leu Glu Ala
690 695 700
Ser Glu Lys Gln Met Val Val Val Cys Lys Glu Ser Pro Lys Glu Tyr
705 710 715 720
Leu Gln Pro Phe Lys Asp Lys Leu Glu Glu Phe Phe Gln Lys Ala Lys
725 730 735
Lys Glu His Lys Met Glu Glu Ser His Leu Glu Asn Ala Gln Lys Ser
740 745 750
Phe Glu Thr Thr Val Arg Tyr Phe Gly Met Lys Pro Lys Ser Gly Glu

755 760 765
 Lys Glu Ile Thr Pro Ser Tyr Val Phe Met Val Trp Tyr Glu Phe Cys
 770 775 780
 Ser Asp Phe Lys Thr Ile Trp Lys Arg Glu Ser Lys Asn Ile Ser Lys
 785 790 795 800
 Glu Arg Leu Lys Met Ala Gln Glu Ser Val Ser Lys Leu Thr Ser Glu
 805 810 815
 Lys Lys Val Glu Thr Lys Lys Ile Asn Pro Thr Ala Ser Leu Lys Glu
 820 825 830
 Arg Leu Arg Gln Lys Glu Ala Ser Val Thr Thr Asn
 835 840

<210> 2427

<211> 666

<212> PRT

<213> Homo sapiens

<400> 2427

Met Ser Glu Tyr Asn Ser Glu Ile Pro Val Val Asn Leu Lys Thr Ser
 1 5 10 15
 Thr His Gln Lys Thr Pro Val Cys Ser Ile Asp Gly Ser Thr Pro Ile
 20 25 30
 Thr Lys Ser Thr Gly Asp Trp Ala Glu Ala Ser Leu Gln Gln Glu Asn
 35 40 45
 Ala Ile Thr Gly Lys Pro Val Pro Asp Ser Leu Asn Ser Thr Lys Glu
 50 55 60
 Phe Ser Ile Lys Gly Val Gln Gly Asn Met Gln Lys Gln Asp Asp Thr
 65 70 75 80

Leu Ala Glu Leu Pro Gly Ser Pro Pro Glu Lys Cys Asp Ser Leu Gly
 85 90 95
 Ser Gly Val Ala Thr Val Lys Val Val Leu Pro Asp Asp His Leu Lys
 100 105 110
 Asp Glu Met Asp Trp Gln Ser Ser Ala Leu Gly Glu Ile Thr Glu Ala
 115 120 125
 Asp Ser Ser Gly Glu Ser Asp Asp Thr Val Ile Glu Asp Ile Thr Ala
 130 135 140
 Asp Thr Ser Phe Glu Asn Asn Lys Ile Gln Ala Glu Lys Pro Val Ser
 145 150 155 160
 Ile Pro Ser Ala Val Val Lys Thr Gly Glu Arg Glu Ile Lys Glu Ile
 165 170 175
 Pro Ser Cys Glu Arg Glu Glu Lys Thr Ser Lys Asn Phe Glu Glu Leu
 180 185 190
 Val Ser Asp Ser Glu Leu His Gln Asp Gln Pro Asp Ile Leu Gly Arg
 195 200 205
 Ser Pro Ala Ser Glu Ala Ala Cys Ser Lys Val Pro Asp Thr Asn Val
 210 215 220
 Ser Leu Glu Asp Val Ser Glu Val Ala Pro Glu Lys Pro Ile Thr Thr
 225 230 235 240
 Glu Asn Pro Lys Leu Pro Ser Thr Val Ser Pro Asn Val Phe Asn Glu
 245 250 255
 Thr Glu Phe Ser Leu Asn Val Thr Thr Ser Ala Tyr Leu Glu Ser Leu
 260 265 270
 His Gly Lys Asn Val Lys His Ile Asp Asp Ser Ser Pro Glu Asp Leu
 275 280 285
 Ile Ala Ala Phe Thr Glu Thr Arg Asp Lys Gly Ile Val Asp Ser Glu
 290 295 300
 Arg Asn Ala Phe Lys Ala Ile Ser Glu Lys Met Thr Asp Phe Lys Thr

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Pro Phe Lys Ala Tyr Leu Asp Val Asp Ile Thr Leu Ser Ser Glu Ala
 545 550 555 560
 Phe His Asn Tyr Met Asn Ala Ala Met Val His Ile Asn Arg Ala Leu
 565 570 575
 Lys Leu Ile Ile Arg Leu Phe Leu Val Glu Asp Leu Val Asp Ser Leu
 580 585 590
 Lys Leu Ala Val Phe Met Trp Leu Met Thr Tyr Val Gly Ala Val Phe
 595 600 605
 Asn Gly Ile Thr Leu Leu Ile Leu Ala Glu Leu Leu Ile Phe Ser Val
 610 615 620
 Pro Ile Val Tyr Glu Lys Tyr Lys Thr Gln Ile Asp His Tyr Val Gly
 625 630 635 640
 Ile Ala Arg Asp Gln Thr Lys Ser Ile Val Glu Lys Ile Gln Ala Lys
 645 650 655
 Leu Pro Gly Ile Ala Lys Lys Lys Ala Glu
 660 665

<210> 2428

<211> 799

<212> PRT

<213> Homo sapiens

<400> 2428

Met Asn Tyr Asp Pro Ile Val Ser Lys Val Ala Glu Val Leu Ala Ser
 1 5 10 15
 Gly Arg Ala Ile Arg Lys Arg Glu Val Glu Arg Ser Lys His Thr Val
 20 25 30
 Val Ala Tyr Lys Asp Ala Ile Tyr Val Phe Gly Gly Asp Asn Gly Lys

35	40	45
Thr Met Leu Asn Asp Leu Leu Arg Phe Asp Val Lys Asp Cys Ser Trp		
50	55	60
Cys Arg Ala Phe Thr Thr Gly Thr Pro Pro Ala Pro Arg Tyr His His		
65	70	75
Ser Ala Val Val Tyr Gly Ser Ser Met Phe Val Phe Gly Gly Tyr Thr		
85	90	95
Gly Asp Ile Tyr Ser Asn Ser Asn Leu Lys Asn Lys Asn Asp Leu Phe		
100	105	110
Glu Tyr Lys Phe Ala Thr Gly Gln Trp Thr Glu Trp Lys Ile Glu Gly		
115	120	125
Arg Leu Pro Val Ala Arg Ser Ala His Gly Ala Thr Val Tyr Ser Asp		
130	135	140
Lys Leu Trp Ile Phe Ala Gly Tyr Asp Gly Asn Ala Arg Leu Asn Asp		
145	150	155
Met Trp Thr Ile Gly Leu Gln Asp Arg Glu Leu Ala Cys Trp Glu Glu		
165	170	175
Val Ala Gln Ser Gly Glu Ile Pro Pro Ser Cys Cys Asn Phe Pro Val		
180	185	190
Ala Val Cys Arg Asp Lys Met Phe Val Phe Ser Gly Gln Ser Gly Ala		
195	200	205
Lys Ile Thr Asn Asn Leu Phe Gln Phe Glu Phe Lys Asp Lys Thr Trp		
210	215	220
Thr Arg Ile Pro Thr Glu His Leu Leu Arg Gly Ser Pro Pro Pro Pro		
225	230	235
Gln Arg Arg Tyr Gly His Thr Met Val Ala Phe Asp Arg His Leu Tyr		
245	250	255
Val Phe Gly Gly Ala Ala Asp Ser Thr Leu Pro Asn Glu Leu His Cys		
260	265	270

Tyr Asp Val Asp Phe Gln Thr Trp Glu Val Val Gln Pro Ser Ser Asp
275 280 285

Ser Glu Val Gly Gly Ala Glu Val Pro Glu Arg Ala Cys Ala Ser Glu
290 295 300

Glu Val Pro Thr Leu Thr Tyr Glu Glu Arg Val Gly Phe Lys Lys Ser
305 310 315 320

Arg Asp Val Phe Gly Leu Asp Phe Gly Thr Thr Ser Ala Lys Gln Pro
325 330 335

Thr Gln Pro Ala Ser Glu Leu Pro Ser Gly Arg Leu Phe His Ala Ala
340 345 350

Ala Val Ile Ser Asp Ala Met Tyr Ile Phe Gly Gly Thr Val Asp Asn
355 360 365

Asn Ile Arg Ser Gly Glu Met Tyr Arg Phe Gln Phe Ser Cys Tyr Pro
370 375 380

Lys Cys Thr Gln His Glu Asp Tyr Gly Arg Leu Trp Glu Ser Arg Gln
385 390 395 400

Phe Cys Asp Val Glu Phe Val Leu Gly Glu Lys Glu Glu Cys Val Gln
405 410 415

Gly His Val Ala Ile Val Thr Ala Arg Ser Arg Trp Leu Arg Arg Lys
420 425 430

Ile Thr Gln Ala Arg Glu Arg Leu Ala Gln Lys Leu Glu Gln Glu Ala
435 440 445

Ala Pro Val Pro Arg Glu Ala Pro Gly Val Ala Ala Gly Gly Ala Arg
450 455 460

Pro Pro Leu Leu His Val Ala Ile Arg Glu Ala Glu Ala Arg Pro Phe
465 470 475 480

Glu Val Leu Met Gln Phe Leu Tyr Thr Asp Lys Ile Lys Tyr Pro Arg
485 490 495

Lys Gly His Val Glu Asp Val Leu Leu Ile Met Asp Val Tyr Lys Leu

500 505 510
Ala Leu Ser Phe Gln Leu Cys Arg Leu Glu Gln Leu Cys Arg Gln Tyr
515 520 525
Ile Glu Ala Ser Val Asp Leu Gln Asn Val Leu Val Val Cys Glu Ser
530 535 540
Ala Ala Arg Leu Gln Leu Ser Gln Leu Lys Glu His Cys Leu Asn Phe
545 550 555 560
Val Val Lys Glu Ser His Phe Asn Gln Val Ile Met Met Lys Glu Phe
565 570 575
Glu Arg Leu Ser Ser Pro Leu Ile Val Glu Ile Val Arg Arg Lys Gln
580 585 590
Gln Pro Pro Pro Arg Thr Pro Leu Asp Gln Pro Val Asp Ile Gly Thr
595 600 605
Ser Leu Ile Gln Asp Met Lys Ala Tyr Leu Glu Gly Ala Gly Ala Glu
610 615 620
Phe Cys Asp Ile Thr Leu Leu Leu Asp Gly His Pro Arg Pro Ala His
625 630 635 640
Lys Ala Ile Leu Ala Ala Arg Ser Ser Tyr Phe Glu Ala Met Phe Arg
645 650 655
Ser Phe Met Pro Glu Asp Gly Gln Val Asn Ile Ser Ile Gly Glu Met
660 665 670
Val Pro Ser Arg Gln Ala Phe Glu Ser Met Leu Arg Tyr Ile Tyr Tyr
675 680 685
Gly Glu Val Asn Met Pro Pro Glu Asp Ser Leu Tyr Leu Phe Ala Ala
690 695 700
Pro Tyr Tyr Tyr Gly Phe Tyr Asn Asn Arg Leu Gln Ala Tyr Cys Lys
705 710 715 720
Gln Asn Leu Glu Met Asn Val Thr Val Gln Asn Val Leu Gln Ile Leu
725 730 735

Glu Ala Ala Asp Lys Thr Gln Ala Leu Asp Met Lys Arg His Cys Leu
 740 745 750
 His Ile Ile Val His Gln Phe Thr Lys Val Ser Lys Leu Pro Thr Leu
 755 760 765
 Arg Ser Leu Ser Gln Gln Leu Leu Leu Asp Ile Ile Asp Ser Leu Ala
 770 775 780
 Ser His Ile Ser Asp Lys Gln Cys Ala Glu Leu Gly Ala Asp Ile
 785 790 795

<210> 2429

<211> 716

<212> PRT

<213> Homo sapiens

<400> 2429

Met Asp Thr Glu Phe Gly Ala Ser Ser Phe Phe His Ser Pro Ala Ser
 1 5 10 15
 Cys His Glu Ser His Ser Ser Leu Ser Pro Glu Ser Ser Ala Pro Gln
 20 25 30
 His Ser Ser Pro Ser Arg Ser Ala Leu Lys Leu Leu Thr Ser Val Glu
 35 40 45
 Val Asp Asn Ile Glu Pro Ser Ala Phe His Arg Gln Gly Leu Pro Lys
 50 55 60
 Ala Pro Gly Trp Thr Glu Lys Asn Ser His His Ser Trp Glu Pro Leu
 65 70 75 80
 Asp Ala Pro Glu Gly Lys Leu Gln Gly Ser Arg Cys Asp Asn Ser Ser
 85 90 95
 Cys Ser Lys Leu Pro Pro Gln Glu Gly Arg Gly Ile Ala Gln Glu Gln

100	105	110
Leu Phe Gln Glu Lys Lys Asp Pro Ala Asn Pro Ser Pro Val Met Pro		
115	120	125
Gly Ile Ala Thr Ser Glu Arg Gly Asp Glu His Ser Leu Gly Cys Ser		
130	135	140
Pro Ser Asn Ser Ser Ala Gln Pro Ser Leu Pro Leu Tyr Arg Thr Cys		
145	150	155
His Pro Ile Met Pro Val Ala Ser Ser Phe Val Leu His Cys Pro Asp		
165	170	175
Pro Val Gln Lys Thr Asn Gln Cys Leu Gln Gly Gln Ser Leu Lys Thr		
180	185	190
Ser Leu Thr Leu Lys Val Asp Arg Gly Ser Glu Glu Thr Tyr Arg Pro		
195	200	205
Glu Phe Pro Ser Thr Lys Gly Leu Val Arg Ser Leu Ala Glu Gln Phe		
210	215	220
Gln Arg Met Gln Gly Val Ser Met Arg Asp Ser Thr Gly Phe Lys Asp		
225	230	235
Arg Ser Leu Ser Gly Ser Leu Arg Lys Asn Ser Ser Pro Ser Asp Ser		
245	250	255
Lys Pro Pro Phe Ser Gln Gly Gln Glu Lys Gly His Trp Pro Trp Ala		
260	265	270
Lys Gln Gln Ser Ser Leu Glu Gly Gly Asp Arg Pro Leu Ser Trp Glu		
275	280	285
Glu Ser Thr Glu His Ser Ser Leu Ala Leu Asn Ser Gly Leu Pro Asn		
290	295	300
Gly Glu Thr Ser Ser Gly Gly Gln Pro Arg Leu Ala Glu Pro Asp Ile		
305	310	315
Tyr Gln Glu Lys Leu Ser Gln Val Arg Asp Val Arg Ser Lys Asp Leu		
325	330	335

Gly Ser Ser Thr Asp Leu Gly Thr Ser Leu Pro Leu Asp Ser Trp Val
340 345 350
Asn Ile Thr Arg Phe Cys Asp Ser Gln Leu Lys His Gly Ala Pro Arg
355 360 365
Pro Gly Met Lys Ser Ser Pro His Asp Ser His Thr Cys Val Thr Tyr
370 375 380
Pro Glu Arg Asn His Ile Leu Leu His Pro His Trp Asn Gln Asp Thr
385 390 395 400
Glu Gln Glu Thr Ser Glu Leu Glu Ser Leu Tyr Gln Ala Ser Leu Gln
405 410 415
Ala Ser Gln Ala Gly Cys Ser Gly Trp Gly Gln Gln Asp Thr Ala Trp
420 425 430
His Pro Leu Ser Gln Thr Gly Ser Ala Asp Gly Met Gly Arg Arg Leu
435 440 445
His Ser Ala His Asp Pro Gly Leu Ser Lys Thr Ser Thr Ala Glu Met
450 455 460
Glu His Gly Leu His Glu Ala Arg Thr Val Arg Thr Ser Gln Asp Ser
465 470 475 480
Ser Asn Val Arg Lys Pro Leu Glu Thr Gly His Arg Cys Ser Ser Ser
485 490 495
Ser Ser Leu Pro Val Ile His Asp Pro Ser Val Phe Leu Leu Gly Pro
500 505 510
Gln Leu Tyr Leu Pro Gln Pro Gln Phe Leu Ser Pro Asp Val Leu Met
515 520 525
Pro Thr Met Ala Gly Glu Pro Asn Arg Leu Pro Gly Thr Ser Arg Ser
530 535 540
Val Gln Gln Phe Leu Ala Met Cys Asp Arg Gly Glu Thr Ser Gln Gly
545 550 555 560
Ala Lys Tyr Thr Gly Arg Thr Leu Asn Tyr Gln Ser Leu Pro His Arg

	565		570		575
Ser Arg Thr Asp Asn Ser Trp Ala Pro Trp Ser Glu Thr Asn Gln His					
	580		585		590
Ile Gly Thr Arg Phe Leu Thr Thr Pro Gly Cys Asn Pro Gln Leu Thr					
	595		600		605
Tyr Thr Ala Thr Leu Pro Glu Arg Ser Lys Gly Leu Gln Val Pro His					
	610		615		620
Thr Gln Ser Trp Ser Asp Leu Phe His Ser Pro Ser His Pro Pro Ile					
625		630		635	640
Val His Pro Val Tyr Pro Pro Ser Ser Ser Leu His Val Pro Leu Arg					
	645		650		655
Ser Ala Trp Asn Ser Asp Pro Val Pro Gly Ser Arg Thr Pro Gly Pro					
	660		665		670
Arg Arg Val Asp Met Pro Pro Asp Asp Asp Trp Arg Gln Ser Ser Tyr					
	675		680		685
Ala Ser His Ser Gly His Arg Arg Thr Val Gly Glu Gly Phe Leu Phe					
	690		695		700
Val Leu Ser Asp Ala Leu Phe Ser His Cys Arg Asn					
705		710		715	

<210> 2430

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2430

Met Lys Lys Arg Phe Tyr Asn Ala Lys Thr Val Ser Ile Leu Leu Val

1

5

10

15

Lys Gln Gln Asn Asn Trp Ala Ile Ser Ser Gln Leu His His Gln Leu
 20 25 30
 Met Pro Asn Leu Glu Ser Ile Trp Leu Arg Met Glu Lys Glu Ser Leu
 35 40 45
 Pro Arg Ser Leu Asn Phe Asp His His Gly Ile Tyr Met Asn Trp Gln
 50 55 60
 Thr Lys Phe Met Leu Leu Leu Lys Thr Val Ser Ile Pro Arg Ser Gln
 65 70 75 80
 Ala Ile Phe Thr Gln Pro Gly Leu Gly Ser Gly Thr Pro Gln Gly Tyr
 85 90 95
 Lys Gln Ser His Ser Ala Leu Gly Trp Ala Ala Thr Leu Ser Cys Trp
 100 105 110
 Gly Lys Asp Gly Ser Arg Gln Leu Ser Trp Val Thr Ala Gly Ser Ser
 115 120 125
 Phe His Lys Ser Asp Leu Ile Ser
 130 135

<210> 2431

<211> 162

<212> PRT

<213> Homo sapiens

<400> 2431

Met Ser Asp Lys Ala Val Ile Val Arg Ile Leu Asn Asp Leu Glu Val
 1 5 10 15
 Ser Gln Ser Phe Ser Ser Glu Lys Pro Glu Phe Leu Leu Glu Met Lys
 20 25 30
 Leu Asp Arg Ser Trp Arg Ser Arg Arg Leu Arg Arg Ala Ala Leu Gly

35 40 45
 Gln Arg Thr Gly Lys Gln Arg Gly Gly Trp Gln Ile Ser Ser Phe Cys
 50 55 60
 Pro Ile Arg Leu Trp Trp Lys Tyr Leu Arg Cys Gln Val Leu His His
 65 70 75 80
 Ser Ala Asn Cys Leu Ala His Gly Ser Gly Asn Thr Leu Ser Pro Leu
 85 90 95
 Met Cys Thr Arg Lys Cys Gln Gly Asp Pro Gln Gln Val Leu Gly Val
 100 105 110
 Phe Phe Arg Ser His Val Glu Thr Ser Gln Ser Thr Pro Glu Cys Pro
 115 120 125
 Ala Gln Ala Ser Phe Ala Ala Asp Gln Val Leu Gln Ser Ser Leu Ala
 130 135 140
 Gly Trp Asp Leu Ser Arg Ser Ala Leu Gly Arg Leu Ser Ser Gln Gly
 145 150 155 160
 Lys Ala

<210> 2432

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2432

Met Gly Val Gly Cys Arg Leu Ser Arg Ala Leu Leu Thr Ala Val Thr
 1 5 10 15
 Asn Val Leu Ile Phe Phe Trp Cys Leu Ala Phe Leu Trp Gly Leu Leu
 20 25 30

Ile Leu Leu Lys Tyr Arg Trp Arg Lys Leu Glu Glu Glu Glu Gln Ala
 35 40 45
 Met Tyr Glu Met Val Lys Lys Ile Ile Asp Val Val Gln Asp His Tyr
 50 55 60
 Val Asp Trp Glu Gln Asp Met Glu Arg Tyr Pro Tyr Val Gly Ile Leu
 65 70 75 80
 His Val Arg Asp Ser Leu Ile Pro Pro Gln Ser Arg Arg Arg Met Lys
 85 90 95
 Arg Val Trp Asp Arg Ala Val Glu Phe Leu Ala Ser Asn Glu Ser Arg
 100 105 110
 Ile Gln Thr Glu Ser His Arg Val Ala Gly Glu Asp Met Leu Val Trp
 115 120 125
 Arg Trp Thr Lys Pro Ser Ser Phe Ser Asp Ser Glu Arg
 130 135 140

<210> 2433

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2433

Met Ser Ser Cys Pro Trp Phe Leu Cys Arg Pro Ser Ser Leu Phe Asp
 1 5 10 15
 Ser Leu Ser Cys Ser Val Ala Glu Met Leu Thr Gln His Leu Ser Cys
 20 25 30
 Val Cys His Ser Pro Ala Ser Val Pro His Leu Tyr Ser Lys Ile Pro
 35 40 45
 Ile Leu Val Ile Thr Ser Phe Thr Phe Phe Phe Leu Tyr Leu Trp Asp

<210> 2434

<211> 158

<212> PRT

<213> Homo sapiens

<400> 2434

Met His Arg Pro Leu Leu Pro Leu Ala Cys Gln Gly Pro Phe Ile Phe

1

5

10

15

Leu Ser Tyr Val Val Leu Ser Lys Glu Val Arg Lys Ala Leu Lys Leu
 20 25 30
 Ala Cys Ser Arg Lys Pro Ser Pro Asp Pro Ala Leu Thr Thr Lys Ser
 35 40 45
 Thr Leu Thr Ser Ser Tyr Asn Cys Pro Ser Pro Tyr Ala Asp Gly Arg
 50 55 60
 Leu Tyr Gln Pro Tyr Gly Asp Ser Ala Gly Ser Leu His Ser Thr Ser
 65 70 75 80
 Arg Ser Gly Lys Ser Gln Pro Ser Tyr Ile Pro Phe Leu Leu Arg Glu
 85 90 95
 Glu Ser Ala Leu Asn Pro Gly Gln Gly Pro Pro Gly Leu Gly Asp Pro
 100 105 110
 Gly Ser Leu Phe Leu Glu Gly Gln Asp Gln Gln His Gly Glu Asp Arg
 115 120 125
 Thr Leu Trp Pro Pro Ser Arg Ala Val Gly Trp Leu Leu Leu Lys Val
 130 135 140
 Gly Gly Gly Gly Trp Ala Gly Cys Asp Leu Ser Leu Ala Ser
 145 150 155

<210> 2435

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2435

Met Glu Glu Glu Glu Thr Gln Leu Glu Glu Lys Asn Ser Leu Arg Val
 1 5 10 15
 Glu Gly Asp Asn Ile Tyr Val Arg His Ser Asn Leu Met Leu Glu Glu

20	25	30
Leu Asp Lys Ala Gln Glu Asp Ile Leu Lys His Gln Ala Ser Ile Ser		
35	40	45
Glu Leu Lys Arg Asn Phe Met Glu Ser Thr Pro Glu Pro Arg Pro Asn		
50	55	60
Glu Trp Glu Lys Arg Arg Ile Thr Pro Leu Ser Leu Gln Thr Gln Gly		
65	70	75
Thr Arg Ala Pro Glu Ser Glu Gly Pro Cys Thr Gly Ala Arg Asp Ala		
85	90	95
Val Lys Pro Pro Val Val Lys Thr Glu Met Val Thr Ile Ser Asp Ala		
100	105	110
Ser Gln Arg Thr Glu Ile Ser Thr Lys Glu Val Pro Ile Val Gln Thr		
115	120	125
Glu Thr Lys Thr Ile Thr Tyr Glu Ser Pro Gln Thr Val Lys Gly Gly		
130	135	140
Ile Ser Glu Thr Arg Ile Glu Lys Arg Ile Val Ile Thr Gly Asp Gly		
145	150	155
Asp Ile Asp His Asp Gln Ala Leu Ala Gln Ala Ile Arg Glu Ala Arg		
165	170	175
Glu Gln His Pro Asp Met Ser Val Thr Arg Val Val Val His Lys Glu		
180	185	190
Thr Glu Leu Ala Glu Glu Gly Glu Asp		
195	200	

<210> 2436

<211> 926

<212> PRT

<213> Homo sapiens

<400> 2436

Met	Cys	Cys	Val	Ser	Pro	Phe	Tyr	Ser	Leu	Thr	Lys	Lys	Ser	Gln	Cys
1				5					10					15	
Cys	Phe	Leu	Ser	Gln	Cys	Arg	Glu	Val	Ile	Gln	Asn	Ser	Lys	Glu	Val
			20					25					30		
Leu	Ser	Leu	Leu	Gln	Glu	Lys	Asn	Pro	Ala	Phe	Lys	Pro	Val	Leu	Ala
			35				40					45			
Ile	Ile	Gln	Ala	Gly	Asp	Asp	Asn	Leu	Met	Gln	Glu	Ile	Asn	Gln	Asn
	50					55					60				
Leu	Ala	Glu	Glu	Ala	Gly	Leu	Asn	Ile	Thr	His	Ile	Cys	Leu	Pro	Pro
65					70				75					80	
Asp	Ser	Ser	Glu	Ala	Glu	Ile	Ile	Asp	Glu	Ile	Leu	Lys	Ile	Asn	Glu
			85					90						95	
Asp	Thr	Arg	Val	His	Gly	Leu	Ala	Leu	Gln	Ile	Ser	Glu	Asn	Leu	Phe
			100					105						110	
Ser	Asn	Lys	Val	Leu	Asn	Ala	Leu	Lys	Pro	Glu	Lys	Asp	Val	Asp	Gly
		115					120					125			
Val	Thr	Asp	Ile	Asn	Leu	Gly	Lys	Leu	Val	Arg	Gly	Asp	Ala	His	Glu
	130						135					140			
Cys	Phe	Val	Ser	Pro	Val	Ala	Lys	Ala	Val	Ile	Glu	Leu	Leu	Glu	Lys
145					150				155					160	
Ser	Val	Gly	Val	Asn	Leu	Asp	Gly	Lys	Lys	Ile	Leu	Val	Val	Gly	Ala
			165					170						175	
His	Gly	Ser	Leu	Glu	Ala	Ala	Leu	Gln	Cys	Leu	Phe	Gln	Arg	Lys	Gly
		180						185					190		
Ser	Met	Thr	Met	Ser	Ile	Gln	Trp	Lys	Thr	Arg	Gln	Leu	Gln	Ser	Lys
		195					200					205			
Leu	His	Glu	Ala	Asp	Ile	Val	Val	Leu	Gly	Ser	Pro	Lys	Pro	Glu	Glu

210 215 220
Ile Pro Leu Thr Trp Ile Gln Pro Gly Thr Thr Val Leu Asn Cys Ser
225 230 235 240
His Asp Phe Leu Ser Gly Lys Val Gly Cys Gly Ser Pro Arg Ile His
245 250 255
Phe Gly Gly Leu Ile Glu Glu Asp Asp Val Ile Leu Leu Ala Ala Ala
260 265 270
Leu Arg Ile Gln Asn Met Val Ser Ser Gly Arg Arg Trp Leu Arg Glu
275 280 285
Gln Gln His Arg Arg Trp Arg Leu His Cys Leu Lys Leu Gln Pro Leu
290 295 300
Ser Pro Val Pro Ser Asp Ile Glu Ile Ser Arg Gly Gln Thr Pro Lys
305 310 315 320
Ala Val Asp Val Leu Ala Lys Glu Ile Gly Leu Leu Ala Asp Glu Ile
325 330 335
Glu Ile Tyr Gly Lys Ser Lys Ala Lys Val Arg Leu Ser Val Leu Glu
340 345 350
Arg Leu Lys Asp Gln Ala Asp Gly Lys Tyr Val Leu Val Ala Gly Ile
355 360 365
Thr Pro Thr Pro Leu Gly Glu Gly Lys Ser Thr Val Thr Ile Gly Leu
370 375 380
Val Gln Ala Leu Thr Ala His Leu Asn Val Asn Ser Phe Ala Cys Leu
385 390 395 400
Arg Gln Pro Ser Gln Gly Pro Thr Phe Gly Val Lys Gly Gly Ala Ala
405 410 415
Gly Gly Gly Tyr Ala Gln Val Ile Pro Met Glu Glu Phe Asn Leu His
420 425 430
Leu Thr Gly Asp Ile His Ala Ile Thr Ala Ala Asn Asn Leu Leu Ala
435 440 445

Ala Ala Ile Asp Thr Arg Ile Leu His Glu Asn Thr Gln Thr Asp Lys
450 455 460

Ala Leu Tyr Asn Arg Leu Val Pro Leu Val Asn Gly Val Arg Glu Phe
465 470 475 480

Ser Glu Ile Gln Leu Ala Arg Leu Lys Lys Leu Gly Ile Asn Lys Thr
485 490 495

Asp Pro Ser Thr Leu Thr Glu Glu Glu Val Ser Lys Phe Ala Arg Leu
500 505 510

Asp Ile Asp Pro Ser Thr Ile Thr Trp Gln Arg Val Leu Asp Thr Asn
515 520 525

Asp Arg Phe Leu Arg Lys Ile Thr Ile Gly Gln Gly Asn Thr Glu Lys
530 535 540

Gly His Tyr Arg Gln Ala Gln Phe Asp Ile Ala Val Ala Ser Glu Ile
545 550 555 560

Met Ala Val Leu Ala Leu Thr Asp Ser Leu Ala Asp Met Lys Ala Arg
565 570 575

Leu Gly Arg Met Val Val Ala Ser Asp Lys Ser Gly Gln Pro Val Thr
580 585 590

Ala Asp Asp Leu Gly Val Thr Gly Ala Leu Thr Val Leu Met Lys Asp
595 600 605

Ala Ile Lys Pro Asn Leu Met Gln Thr Leu Glu Gly Thr Pro Val Phe
610 615 620

Val His Ala Gly Pro Phe Ala Asn Ile Ala His Gly Asn Ser Ser Val
625 630 635 640

Leu Ala Asp Lys Ile Ala Leu Lys Leu Val Gly Glu Glu Gly Phe Val
645 650 655

Val Thr Glu Ala Gly Phe Gly Ala Asp Ile Gly Met Glu Lys Phe Phe
660 665 670

Asn Ile Lys Cys Arg Ala Ser Gly Leu Val Pro Asn Val Val Val Leu

675	680	685
Val Ala Thr Val Arg Ala Leu Lys Met His Gly Gly Gly Pro Ser Val		
690	695	700
Thr Ala Gly Val Pro Leu Lys Lys Glu Tyr Thr Glu Glu Asn Ile Gln		
705	710	715
Leu Val Ala Asp Gly Cys Cys Asn Leu Gln Lys Gln Ile Gln Ile Thr		
725	730	735
Gln Leu Phe Gly Val Pro Val Val Ala Ala Leu Asn Val Phe Lys Thr		
740	745	750
Asp Thr Arg Ala Glu Ile Asp Leu Val Cys Glu Leu Ala Lys Arg Ala		
755	760	765
Gly Ala Phe Asp Ala Val Pro Cys Tyr His Trp Ser Val Gly Gly Lys		
770	775	780
Gly Ser Val Asp Leu Ala Arg Ala Val Arg Glu Ala Ala Ser Lys Arg		
785	790	795
Ser Arg Phe Gln Phe Leu Tyr Asp Val Gln Val Pro Ile Val Asp Lys		
805	810	815
Ile Arg Thr Ile Ala Gln Ala Val Tyr Gly Ala Lys Asp Ile Glu Leu		
820	825	830
Ser Pro Glu Ala Gln Ala Lys Ile Asp Arg Tyr Thr Gln Gln Gly Phe		
835	840	845
Gly Asn Leu Pro Ile Cys Met Ala Lys Thr His Leu Ser Leu Ser His		
850	855	860
Gln Pro Asp Lys Lys Gly Val Pro Arg Asp Phe Ile Leu Pro Ile Ser		
865	870	875
Asp Val Arg Ala Ser Ile Gly Ala Gly Phe Ile Tyr Pro Leu Val Gly		
885	890	895
Thr Met Ser Thr Met Pro Gly Leu Pro Thr Arg Pro Cys Phe Tyr Asp		
900	905	910

Ile Asp Leu Asp Thr Glu Thr Glu Gln Val Lys Gly Leu Phe

915

920

925

<210> 2437

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2437

Met Ser Ser Ala Ala Ile Lys His Cys Val Arg Cys Phe Leu His Ile

1

5

10

15

Cys Cys Leu Lys Gly Ala Pro Thr Ser Met Arg Pro Pro Trp Ser Cys

20

25

30

Asn Leu Ala Ser Met Gly Pro Asp Ala Arg Phe Leu Thr Trp Leu Leu

35

40

45

Pro Lys Ala Ser Ser Leu Arg Glu Ser Tyr Leu Gly Leu Ile Gly Thr

50

55

60

Met Gly Ser Gln Gly Pro Cys His Gln Pro Val Ser Arg Pro Met Ala

65

70

75

80

Arg Pro Ser Ala Gly Phe Cys Pro Pro Glu Pro Leu Pro Leu Leu Pro

85

90

95

Gln Pro Pro Val Gln Tyr Leu Thr Glu Trp

100

105

<210> 2438

<211> 153

<212> PRT

<213> Homo sapiens

<400> 2438

Met Val Pro Phe Ala Cys Leu Gly Ala Pro Leu His Arg Lys Cys Cys
1 5 10 15
Gly Leu Ser Cys Glu Val Ala Phe Glu Lys Thr Lys Phe Pro Ser Pro
20 25 30
Val Pro Thr Ser Val Met Cys Thr Glu Pro Asp Leu Gln Gln His Cys
35 40 45
Ser Leu Thr Gly Trp Asp Thr Ser Asp Ser Thr Ala Cys Pro Cys Phe
50 55 60
Pro Phe Ile Ser Val Ser Val Ser Gly Tyr Val Leu Ser Gln Gly Lys
65 70 75 80
Phe Arg Glu Met Cys Thr Glu Phe Asn Asn Gly Ser Leu Asn His Ser
85 90 95
Asn His Trp His Asn Tyr Lys Asn Phe Pro His Arg Gly Phe Gln Asn
100 105 110
Arg Ser Ser Leu Thr Arg Phe Leu His Ala Cys Val Tyr Thr Tyr Ile
115 120 125
Asn Ile Tyr Ile Tyr Ile Tyr Ile His Ile Tyr Ile Tyr Ile Tyr Ile
130 135 140
Phe Ile Pro Asp Leu Tyr Val His Ile
145 150

<210> 2439

<211> 315

<212> PRT

<213> Homo sapiens

<400> 2439

Met Ser Leu Gly Tyr Gly Leu Cys Ile Val Ser Pro Asp Thr Phe Thr
 1 5 10 15
 Glu Gly Arg Val His Ala Cys Phe Pro Phe Leu Phe Val Ser Leu Ser
 20 25 30
 Val Pro Ser Gln Ala Leu Gly Phe Ser Pro Lys Ser Ser Leu Pro Val
 35 40 45
 Ser Leu Phe Pro Pro Tyr Ser Gly Met Asn Ser Leu Gly Ile Ser His
 50 55 60
 Lys Leu Thr Leu Ala Pro Leu Lys His Pro Thr Val Thr Phe Lys Leu
 65 70 75 80
 Tyr Asp Thr Asp Arg Asn Gly Ile Leu Asp Ser Ser Val Ser Trp Gly
 85 90 95
 Pro Cys Met Leu Gly Lys Gly Ile Cys Val Asn Leu Ser Ala Pro Ser
 100 105 110
 Cys Pro Asn Ser Ser Arg Val Leu Arg Asn Arg Arg Gly Trp Gly Glu
 115 120 125
 Arg Leu Ser Pro Leu Gly Leu Asn Leu Lys Val Ser Pro Lys Leu Leu
 130 135 140
 Thr Pro Gln Arg Glu Cys Trp Ile His Glu Leu Gly Leu Pro Tyr Lys
 145 150 155 160
 His Thr Asn Thr Phe Ile Tyr Leu Ala Asp Ile Pro Glu Asn Glu Arg
 165 170 175
 Cys Glu Ser Gly Val Glu Pro Arg Asn Thr Asp Phe Trp Lys Arg Val
 180 185 190
 Trp Met Val Val Val Lys Gly Ile Trp Leu Trp Leu Leu Pro Phe Leu
 195 200 205
 Leu Gln Glu Val Asp Lys Ile Ile Leu Gln Met Met Arg Val Ala Glu

210	215	220
Tyr Leu Asp Trp Asp Val Ser Glu Leu Arg Pro Ile Leu Gln Glu Met		
225	230	235
Met Lys Glu Ile Asp Tyr Asp Gly Ser Gly Ser Val Ser Gln Ala Glu		
245	250	255
Trp Val Arg Ala Gly Ala Thr Thr Val Pro Leu Leu Val Leu Leu Gly		
260	265	270
Leu Glu Met Thr Leu Lys Asp Asp Gly Gln His Met Trp Arg Pro Lys		
275	280	285
Arg Phe Pro Arg Pro Val Tyr Cys Asn Leu Cys Glu Ser Ser Ile Gly		
290	295	300
Leu Gly Lys Gln Gly Leu Ser Cys Asn Arg Glu		
305	310	315

<210> 2440

<211> 822

<212> PRT

<213> Homo sapiens

<400> 2440

Met Ala Glu Ser Leu Gly Ser Ala Glu Leu Leu Arg Gln Leu Lys Ser
1 5 10 15
Leu Gly Met Glu Arg Leu Leu His Ala Val Asn Thr Phe Leu Arg Gln
20 25 30
Ser Cys Thr Tyr Leu Pro Leu Leu Thr Phe Gly Gly Lys Thr Ser Phe
35 40 45
Val Ser Leu Asp Val Tyr Gly Thr Glu Ala Asn Cys Ser Ala Thr Ser
50 55 60

Cys Ser Phe Pro Lys Ala Ala Ala Thr Trp Pro Arg Arg Gln Ala Pro
 65 70 75 80
 Gly Pro Leu Gly Glu Leu Val Arg Gly Pro Pro Asp Gln Gly Val Ala
 85 90 95
 Glu Gln Ser Phe Ser His Gly Leu Phe Glu Phe Gly Ile Thr Asn Val
 100 105 110
 Pro Cys Ile Phe Ser Pro Pro Gln Met Phe Pro Trp Ile Ile Gln Leu
 115 120 125
 Tyr Met Val Arg Thr Met Leu Glu Ser Leu Ile Ala Asp Lys Ser Gly
 130 135 140
 Ser Lys Lys Thr Leu Arg Ser Asn Leu Glu Gly Pro Thr Ile Leu Asp
 145 150 155 160
 Ile Glu Lys Phe His Arg Glu Ser Phe Phe Tyr Thr His Leu Ile Asn
 165 170 175
 Phe Ser Glu Thr Leu Gln Gln Cys Cys Asp Leu Ser Gln Leu Trp Phe
 180 185 190
 Arg Glu Phe Phe Leu Glu Leu Thr Met Gly Arg Arg Ile Gln Phe Pro
 195 200 205
 Ile Glu Met Ser Met Pro Trp Ile Leu Thr Asp His Ile Leu Glu Thr
 210 215 220
 Lys Glu Ala Ser Met Met Glu Tyr Val Leu Tyr Ser Leu Asp Leu Tyr
 225 230 235 240
 Asn Asp Ser Ala His Tyr Ala Leu Thr Arg Phe Asn Lys Gln Phe Leu
 245 250 255
 Tyr Asp Glu Ile Glu Ala Glu Val Asn Leu Cys Phe Asp Gln Phe Val
 260 265 270
 Tyr Lys Leu Ala Asp Gln Ile Phe Ala Tyr Tyr Lys Val Met Ala Gly
 275 280 285
 Ser Leu Leu Leu Asp Lys Arg Leu Arg Ser Glu Cys Lys Asn Gln Gly

290 295 300
Ala Thr Ile His Leu Pro Pro Ser Asn Arg Tyr Glu Thr Leu Leu Lys
305 310 315 320
Gln Arg His Val Gln Leu Leu Gly Arg Ser Ile Asp Leu Asn Arg Leu
325 330 335
Ile Thr Gln Arg Val Ser Ala Ala Met Tyr Lys Ser Leu Glu Leu Ala
340 345 350
Ile Gly Arg Phe Glu Ser Glu Asp Leu Thr Ser Ile Val Glu Leu Asp
355 360 365
Gly Leu Leu Glu Ile Asn Arg Met Thr His Lys Leu Leu Ser Arg Tyr
370 375 380
Leu Thr Leu Asp Ser Phe Asp Ala Met Phe Arg Glu Ala Asn His Asn
385 390 395 400
Val Ser Ala Pro Tyr Gly Arg Ile Thr Leu His Val Phe Trp Glu Leu
405 410 415
Asn Tyr Asp Phe Leu Pro Asn Tyr Cys Tyr Asn Gly Ser Thr Asn Arg
420 425 430
Phe Val Arg Thr Val Leu Pro Phe Ser Gln Glu Phe Gln Arg Asp Lys
435 440 445
Gln Pro Asn Ala Gln Pro Gln Tyr Leu His Gly Ser Lys Ala Leu Asn
450 455 460
Leu Ala His Ser Ser Ile Tyr Gly Ser Tyr Arg Asn Phe Val Gly Pro
465 470 475 480
Pro His Phe Gln Val Ile Cys Arg Leu Leu Gly Tyr Gln Gly Ile Ala
485 490 495
Val Val Arg Glu Glu Leu Leu Lys Val Val Lys Ser Leu Leu Gln Gly
500 505 510
Thr Ile Leu Gln Tyr Val Lys Thr Leu Met Glu Val Met Pro Lys Ile
515 520 525

Cys Arg Leu Pro Arg His Glu Tyr Gly Ser Pro Gly Ile Leu Glu Phe
 530 535 540
 Phe His His Gln Leu Lys Asp Ile Val Glu Tyr Ala Glu Leu Lys Thr
 545 550 555 560
 Val Cys Phe Gln Asn Leu Arg Glu Val Gly Asn Ala Ile Leu Phe Cys
 565 570 575
 Leu Leu Ile Glu Gln Ser Leu Ser Leu Glu Glu Val Cys Asp Leu Leu
 580 585 590
 His Ala Ala Pro Phe Gln Asn Ile Leu Pro Arg Val His Val Lys Glu
 595 600 605
 Gly Glu Arg Leu Asp Ala Lys Met Lys Arg Leu Glu Ser Lys Tyr Ala
 610 615 620
 Pro Leu His Leu Val Pro Leu Ile Glu Arg Leu Gly Thr Pro Gln Gln
 625 630 635 640
 Ile Ala Ile Ala Arg Glu Gly Asp Leu Leu Thr Lys Glu Arg Leu Cys
 645 650 655
 Cys Gly Leu Ser Met Phe Glu Val Ile Leu Thr Arg Ile Arg Ser Phe
 660 665 670
 Leu Asp Asp Pro Ile Trp Arg Gly Pro Leu Pro Ser Asn Gly Val Met
 675 680 685
 His Val Asp Glu Cys Val Glu Phe His Arg Leu Trp Ser Ala Met Gln
 690 695 700
 Phe Val Tyr Cys Ile Pro Val Gly Thr His Glu Phe Thr Val Glu Gln
 705 710 715 720
 Cys Phe Gly Asp Gly Leu His Trp Ala Gly Cys Met Ile Ile Val Leu
 725 730 735
 Leu Gly Gln Gln Arg Arg Phe Ala Val Leu Asp Phe Cys Tyr His Leu
 740 745 750
 Leu Lys Val Gln Lys His Asp Gly Lys Asp Glu Ile Ile Lys Asn Val

755 760 765
 Pro Leu Lys Lys Met Val Glu Arg Ile Arg Lys Phe Gln Ile Leu Asn
 770 775 780
 Asp Glu Ile Ile Thr Ile Leu Asp Lys Tyr Leu Lys Ser Gly Asp Gly
 785 790 795 800
 Glu Gly Thr Pro Val Glu His Val Arg Cys Phe Gln Pro Pro Ile His
 805 810 815
 Gln Ser Leu Ala Ser Ser
 820

<210> 2441

<211> 186

<212> PRT

<213> Homo sapiens

<400> 2441

Met Phe Gly Lys Pro Asp Lys Met Asp Val Arg Cys His Ser Asp Ala
 1 5 10 15
 Glu Ala Ala Arg Val Ser Lys Asn Ala His Lys Glu Ser Arg Glu Ser
 20 25 30
 Lys Gly Ala Glu Gly Asn Leu Pro Ala Ala Phe Leu Lys Glu Pro Gln
 35 40 45
 Gly Ala Phe Ser Ala Ser Gly Ala Ala Glu Asp Cys Asn Lys Ser Lys
 50 55 60
 Ser Asn Ser Ala Ala Asp Pro Asp Tyr Cys Arg Arg Ile Leu Val Arg
 65 70 75 80
 Asp Ala Lys Gly Ser Ile Arg Glu Ile Ile Leu Pro Lys Gly Leu Asp
 85 90 95

Leu Asp Arg Pro Lys Arg Thr Arg Thr Ser Phe Thr Ala Glu Gln Leu
 100 105 110
 Tyr Arg Leu Glu Met Glu Phe Gln Arg Cys Gln Tyr Val Val Gly Arg
 115 120 125
 Glu Arg Thr Glu Leu Ala Arg Gln Leu Asn Leu Ser Glu Thr Gln Ala
 130 135 140
 Asn Ser Glu Glu Asn Asn Glu Arg Phe Lys Arg Gly Ile Lys Lys Gln
 145 150 155 160
 Lys Lys Lys Arg Lys Lys Glu Pro Ala Asn Asp Glu Ser Arg Arg Gly
 165 170 175
 Asp Ser Gly Gly Arg Gly Trp Gln Pro Leu
 180 185

<210> 2442

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2442

Met Ala Phe Val Leu His Gln Ala Gly Pro Pro His Ser His Gly Ser
 1 5 10 15
 Arg Gly Ala Glu Tyr Ala Pro Leu Glu Glu Gly Pro Glu Glu Pro Leu
 20 25 30
 Pro Leu Gly Asn Thr Ser Val Arg Ala Ala Phe Val His Val Leu Gly
 35 40 45
 Asp Leu Leu Gln Ser Phe Gly Val Leu Ala Ala Ser Ile Leu Ile Tyr
 50 55 60
 Phe Lys Pro Gln Tyr Lys Ala Ala Asp Pro Ile Ser Thr Phe Leu Phe

65 70 75 80
Ser Ile Cys Ala Leu Gly Ser Thr Ala Pro Thr Leu Arg Asp Val Leu
 85 90 95
Arg Ile Leu Met Glu Gly Thr Pro Arg Asn Val Gly Phe Glu Pro Val
 100 105 110
Arg Asp Thr Leu Leu Ser Val Pro Gly Val Arg Ala Thr His Glu Leu
 115 120 125
His Leu Trp Ala Leu Thr Leu Thr Tyr His Val Ala Ser Ala His Leu
 130 135 140
Ala Ile Gly Glu Ser His Trp Pro Gln Leu Val Thr Thr Trp Asn Ile
145 150 155 160
Pro His Pro Lys His Gly Thr Ile Ala
 165

<210> 2443

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2443

Met Gly Leu Asp Ser Thr Leu Gln Asn Leu Leu Lys Val Ala Thr Ser
1 5 10 15
Val Phe Tyr Asn Arg Asp Gln Glu Glu Ala Gln Gly Lys Glu Arg Lys
 20 25 30
His Lys Lys Lys Ala Glu Thr Leu Val Ala Thr Leu Tyr Lys Thr Gln
 35 40 45
Tyr Pro Gln Gly Thr Pro Ala Ser Cys Tyr Gln Cys Gly Lys Leu Gly
50 55 60

His Phe Lys Arg Asp Cys Pro Gly Ser Lys Lys Lys Pro Pro Gln Pro
 65 70 75 80
 Cys Pro Val Tyr Asn Gly Asp His Trp Lys Ala Asp Cys Pro Gly Lys
 85 90 95
 His Arg Ser Leu Ser Pro Glu Pro Val Ser Gln Met Val Gln Gln Asp
 100 105 110

<210> 2444

<211> 155

<212> PRT

<213> Homo sapiens

<400> 2444

Met Ser Val Phe Phe Asp Leu Phe Ile Tyr Leu Phe Ile His Leu Leu
 1 5 10 15
 Arg Gln Ser Leu Ala Leu Ser Pro Arg Leu Lys Cys Ser Gly Met Ile
 20 25 30
 Leu Ala His Cys Asn Leu His Leu Leu Gly Ser Ser Asp Ser His Ala
 35 40 45
 Ser Val Asn Arg Val Ala Arg Thr Thr Gly Ile Arg His His Ala Trp
 50 55 60
 Pro Ile Phe Val Phe Ser Val Glu Ala Gly Phe His His Val Gly Gln
 65 70 75 80
 Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Leu Pro Ala Leu Ala Phe
 85 90 95
 Gln Ser Ala Gly Ile Thr Gly Val Asn His Cys Thr Pro Pro Val Phe
 100 105 110
 Phe Asp Leu Leu His Phe Phe Trp Arg Gln Ser Leu Ser Leu Ser Pro

115 120 125
Arg Leu Glu Cys Gly Gly Thr Ile Ser Ala His Cys Asn Leu Cys Leu
130 135 140
Pro Asp Ser Ser Asp Ser His Ala Ser Ala Ser
145 150 155

<210> 2445

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2445

Met Asn Asn Ala Val Thr Lys Ile Cys Val Glu Val Phe Met Trp Thr
1 5 10 15
Tyr Leu Val Ser Ser Leu Arg Tyr Ile Pro Arg Ser Gly Thr Asp Gly
20 25 30
Thr Tyr Asp Asp Ser Lys Leu Phe Trp Glu Leu Pro His Phe Ser Ser
35 40 45
Glu Val Val Pro Leu Tyr Ile Pro Ala Gly Ser Val Trp Gly Phe His
50 55 60
Leu His Ile Pro Ser Thr Ser Asp Ile Ser Ile Phe Leu Thr Gly Val
65 70 75 80
Ile Phe Cys Tyr Leu Ile Val Leu Gln Asn Ala Leu Asn Ser Leu Pro
85 90 95
Phe Lys Leu Phe Lys Ile Gln Gln Phe Glu Cys Val Asn Asp Ala Ile
100 105 110
Phe Arg Asn Phe Ile Leu Lys His Lys Tyr Leu Leu Cys Asn Ile Arg
115 120 125

Thr Val Phe

130

<210> 2446

<211> 994

<212> PRT

<213> Homo sapiens

<400> 2446

Met Glu Val Ala Leu Gln Thr Glu Pro His Leu Leu Ala Gly Thr Val

1 5 10 15

Asn Pro Thr Val Gly Lys Arg Asn Val Thr Leu Pro Ile Asp Asn Gly

20 25 30

Leu Asn Leu Val Glu Trp Arg Gln Arg Lys Glu Gln Ala Arg Gly Gln

35 40 45

Val Thr Val Phe Gly Arg Arg Leu Arg Val His Asn Arg Asn Leu Leu

50 55 60

Ser Leu Asp Phe Asp Arg Val Thr Arg Thr Glu Lys Ile Tyr Asp Asp

65 70 75 80

His Arg Lys Phe Thr Leu Arg Ile Leu Tyr Asp Gln Ala Gly Arg Pro

85 90 95

Ser Leu Trp Ser Pro Ser Ser Arg Leu Asn Gly Val Asn Val Thr Tyr

100 105 110

Ser Pro Gly Gly Tyr Ile Ala Gly Ile Gln Arg Gly Ile Met Ser Glu

115 120 125

Arg Met Glu Tyr Asp Gln Ala Gly Arg Ile Thr Ser Arg Ile Phe Ala

130 135 140

Asp Gly Lys Thr Trp Ser Tyr Thr Tyr Leu Glu Lys Ser Met Val Leu

145 150 155 160
Leu Leu His Ser Gln Arg Gln Tyr Ile Phe Glu Phe Asp Lys Asn Asp
 165 170 175
Arg Leu Pro Ser Val Thr Met Pro Asn Val Ala Arg Gln Thr Leu Glu
 180 185 190
Thr Ile Arg Ser Val Gly Tyr Tyr Arg Asn Ile Tyr Gln Pro Pro Glu
 195 200 205
Gly Asn Ala Ser Val Ile Gln Asp Phe Thr Glu Asp Gly His Leu Leu
 210 215 220
His Thr Phe Tyr Leu Gly Thr Gly Arg Arg Val Ile Tyr Lys Tyr Gly
225 230 235 240
Lys Leu Ser Lys Leu Ala Glu Thr Leu Tyr Asp Thr Thr Lys Val Ser
 245 250 255
Phe Thr Tyr Asp Glu Thr Ala Gly Met Leu Lys Thr Ile Asn Leu Gln
 260 265 270
Asn Glu Gly Phe Thr Cys Thr Ile Arg Tyr Arg Gln Ile Gly Pro Leu
 275 280 285
Ile Asp Arg Gln Ile Phe Arg Phe Thr Glu Glu Gly Met Val Asn Ala
 290 295 300
Arg Phe Asp Tyr Asn Tyr Asp Asn Ser Phe Arg Val Thr Ser Met Gln
305 310 315 320
Ala Val Ile Asn Glu Thr Pro Leu Pro Ile Asp Leu Tyr Arg Tyr Asp
 325 330 335
Asp Val Ser Gly Lys Thr Glu Gln Phe Gly Lys Phe Gly Val Ile Tyr
 340 345 350
Tyr Asp Ile Asn Gln Ile Ile Thr Thr Ala Val Met Thr His Thr Lys
 355 360 365
His Phe Asp Ala Tyr Gly Arg Met Lys Glu Val Gln Tyr Glu Ile Phe
 370 375 380

Arg Ser Leu Met Tyr Trp Met Thr Val Gln Tyr Asp Asn Met Gly Arg
385 390 395 400
Val Val Lys Lys Glu Leu Lys Val Gly Pro Tyr Ala Asn Thr Thr Arg
405 410 415
Tyr Ser Tyr Glu Tyr Asp Ala Asp Gly Gln Leu Gln Thr Val Ser Ile
420 425 430
Asn Asp Lys Pro Leu Trp Arg Tyr Ser Tyr Asp Leu Asn Gly Asn Leu
435 440 445
His Leu Leu Ser Pro Gly Asn Ser Ala Arg Leu Thr Pro Leu Arg Tyr
450 455 460
Asp Ile Arg Asp Arg Ile Thr Arg Leu Gly Asp Val Gln Tyr Lys Met
465 470 475 480
Asp Glu Asp Gly Phe Leu Arg Gln Arg Gly Gly Asp Ile Phe Glu Tyr
485 490 495
Asn Ser Ala Gly Leu Leu Ile Lys Ala Tyr Asn Arg Ala Gly Ser Trp
500 505 510
Ser Val Arg Tyr Arg Tyr Asp Gly Leu Gly Arg Arg Val Ser Ser Lys
515 520 525
Ser Ser His Ser His His Leu Gln Phe Phe Tyr Ala Asp Leu Thr Asn
530 535 540
Pro Thr Lys Val Thr His Leu Tyr Asn His Ser Ser Ser Glu Ile Thr
545 550 555 560
Ser Leu Tyr Tyr Asp Leu Gln Gly His Leu Phe Ala Met Glu Leu Ser
565 570 575
Ser Gly Asp Glu Ser Tyr Ile Ala Cys Asp Asn Ile Gly Thr Pro Leu
580 585 590
Ala Val Phe Ser Gly Thr Gly Leu Met Ile Lys Gln Ile Leu Tyr Thr
595 600 605
Ala Tyr Gly Glu Ile Tyr Met Asp Thr Asn Pro Asn Phe Gln Ile Ile

610 615 620
Ile Gly Tyr His Gly Gly Leu Tyr Asp Pro Leu Thr Lys Leu Val His
625 630 635 640
Met Gly Arg Arg Asp Tyr Asp Val Leu Ala Gly Arg Trp Thr Ser Pro
645 650 655
Asp His Glu Leu Trp Lys His Leu Ser Ser Ser Asn Val Met Pro Phe
660 665 670
Asn Leu Tyr Met Phe Lys Asn Asn Asn Pro Ile Ser Asn Ser Gln Asp
675 680 685
Ile Lys Cys Phe Met Thr Asp Val Asn Ser Trp Leu Leu Thr Phe Gly
690 695 700
Phe Gln Leu His Asn Val Ile Pro Gly Tyr Pro Lys Pro Asp Met Asp
705 710 715 720
Ala Met Glu Pro Ser Tyr Glu Leu Ile His Thr Gln Met Lys Thr Gln
725 730 735
Glu Trp Asp Asn Ser Lys Ser Ile Leu Gly Val Gln Cys Glu Val Gln
740 745 750
Lys Gln Leu Lys Ala Phe Val Thr Leu Glu Arg Phe Asp Gln Leu Tyr
755 760 765
Gly Ser Thr Ile Thr Ser Cys Gln Gln Ala Pro Lys Thr Lys Lys Phe
770 775 780
Ala Ser Ser Gly Ser Val Phe Gly Lys Gly Val Lys Phe Ala Leu Lys
785 790 795 800
Asp Gly Arg Val Thr Thr Asp Ile Ile Ser Val Ala Asn Glu Asp Gly
805 810 815
Arg Arg Val Ala Ala Ile Leu Asn His Ala His Tyr Leu Glu Asn Leu
820 825 830
His Phe Thr Ile Asp Gly Val Asp Thr His Tyr Phe Val Lys Pro Gly
835 840 845

Pro Ser Glu Gly Asp Leu Ala Ile Leu Gly Leu Ser Gly Gly Arg Arg
850 855 860
Thr Leu Glu Asn Gly Val Asn Val Thr Val Ser Gln Ile Asn Thr Val
865 870 875 880
Leu Asn Gly Arg Thr Arg Arg Tyr Thr Asp Ile Gln Leu Gln Tyr Gly
885 890 895
Ala Leu Cys Leu Asn Thr Arg Tyr Gly Thr Thr Leu Asp Glu Glu Lys
900 905 910
Ala Arg Val Leu Glu Leu Ala Arg Gln Arg Ala Val Arg Gln Ala Trp
915 920 925
Ala Arg Glu Gln Gln Arg Leu Arg Glu Gly Glu Glu Gly Leu Arg Ala
930 935 940
Trp Thr Glu Gly Glu Lys Gln Gln Val Leu Ser Thr Gly Arg Val Gln
945 950 955 960
Gly Tyr Asp Gly Phe Phe Val Ile Ser Val Glu Gln Tyr Pro Glu Leu
965 970 975
Ser Asp Ser Ala Asn Asn Ile His Phe Met Arg Gln Ser Glu Met Gly
980 985 990
Arg Arg

<210> 2447

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2447

Met Leu Leu Leu Phe Leu Asp Ile Asn Asp Val Lys Arg Leu Lys Pro

1 5 10 15
 Gly Tyr Leu Glu Ala Thr Val Asp Trp Phe Arg Arg Tyr Lys Val Pro
 20 25 30
 Asp Gly Lys Pro Glu Asn Glu Phe Ala Phe Asn Ala Glu Phe Lys Asp
 35 40 45
 Lys Asp Phe Ala Ile Asp Ile Ile Lys Ser Thr His Asp His Trp Lys
 50 55 60
 Ala Leu Val Thr Lys Lys Thr Asn Gly Lys Gly Ile Ser Cys Met Asn
 65 70 75 80
 Thr Thr Leu Ser Glu Ser Pro Phe Lys Cys Asp Pro Asp Ala Ala Arg
 85 90 95
 Ala Ile Val Asp Ala Val Cys Lys Ser Phe Leu Lys Lys Lys Thr Ser
 100 105 110
 Leu Val Ala Lys Asn Tyr Asp Ala Lys Trp Gly Glu Glu Val Leu Val
 115 120 125
 Ser Thr Asn Thr
 130

<210> 2448

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2448

Met Tyr Val Gly Ser Leu Thr His Asn Leu Tyr Phe Val Ala Ser Thr
 1 5 10 15
 Tyr Val Tyr Phe Ile Arg Thr Arg Thr Val Glu Met Leu His Lys Val
 20 25 30

Asn Ser Ile Val Leu Ile Leu Leu Ile Asp Ile Ser Thr Ser Ser Thr
35 40 45
Leu Pro Pro Cys Gly Leu Leu Val Ser Lys Glu Glu Leu Lys Gly Lys
50 55 60
Gly Thr Arg Leu Pro Tyr Leu Ser Leu Ser Phe Trp Ile Ile Phe Ser
65 70 75 80
Leu Ser Ala Trp Pro Ile Gln Gly Ser Asn Arg Ser Lys Glu Gly Tyr
85 90 95
Gly Gln Val Pro Trp Ser Phe Met Ser Leu Arg Thr Pro Val Pro Ser
100 105 110
Phe Cys Ile
115

<210> 2449

<211> 198

<212> PRT

<213> Homo sapiens

<400> 2449

Met Pro Gly Ala Arg Leu Ser Asp Ile Glu Glu Val Pro Asn Tyr Glu
1 5 10 15
Asn Gln Asp Gly Gly Ser Ala His Gln Gly Ser Thr Arg Glu Leu Glu
20 25 30
Ser Asp Tyr Tyr Leu Gly Gly Tyr Asp Ile Asp Ser Glu Tyr Pro Pro
35 40 45
Pro His Glu Glu Glu Phe Leu Ser Gln Asp Gln Leu Pro Pro Pro Leu
50 55 60
Pro Glu Asp Phe Pro Asp Gln Tyr Glu Ala Leu Pro Pro Ser Gln Pro

65 70 75 80
 Val Ser Leu Ala Ser Thr Leu Ser Pro Asp Cys Arg Arg Arg Pro Gln
 85 90 95
 Phe His Pro Ser Gln Tyr Leu Pro Pro His Pro Phe Pro Asn Glu Thr
 100 105 110
 Asp Leu Val Gly Pro Pro Ala Ser Cys Glu Phe Ser Thr Phe Ala Val
 115 120 125
 Ser Met Asn Gln Gly Thr Glu Pro Thr Gly Pro Ala Asp Ser Val Ser
 130 135 140
 Leu Ser Leu His Asn Ser Arg Gly Thr Ser Ser Ser Asp Val Ser Ala
 145 150 155 160
 Asn Cys Gly Phe Asp Asp Ser Glu Val Ala Met Ser Asp Tyr Glu Ser
 165 170 175
 Val Gly Glu Leu Ser Leu Ala Ser Leu His Ile Pro Phe Val Glu Thr
 180 185 190
 Gln His Gln Thr Gln Val
 195

<210> 2450

<211> 222

<212> PRT

<213> Homo sapiens

<400> 2450

Met Ser Ser His Leu Leu Leu Thr Ala Leu Thr Asp Arg Trp Val Pro
 1 5 10 15
 Pro Ala Thr Leu Gly Val Leu His Gln Ala Pro Gly Ser Ala Ser Leu
 20 25 30

Leu Val Arg Pro Val Leu Leu Cys Tyr Gly Ala Arg Ala Gly Thr Gly
35 40 45
Pro Ala Thr Pro Thr Gly Met Leu Thr Pro Pro Leu Ala Gln Ser Leu
50 55 60
Gln Glu His Arg Ser Leu Arg Ala Ser Gly Ala Phe Phe Phe Gln Ile
65 70 75 80
Trp Leu Ala Ser Pro Asn Pro Leu Asn Pro Ser Pro Asp His Met Gln
85 90 95
Leu Pro Gly Arg His Cys Ser Asp Ser Ile Trp Pro Phe Gly Thr Asp
100 105 110
Pro Pro Ala Ala Ala Ala Leu Ala Val Ser Lys Ala Asp Thr Tyr Pro
115 120 125
Gly Leu Glu Ser Cys Gly Leu Arg Ser Cys Gly Leu Pro Gln Pro Leu
130 135 140
Ala Thr Val Pro Leu His Asn Gly Asn Asp Arg Met Asn Ile Met Phe
145 150 155 160
Ser Glu Ser Arg Phe Leu Leu Leu Ser Lys Asn Val Phe Ser Tyr Phe
165 170 175
Gly Thr Lys Asn Ala Arg Lys Glu Pro Tyr Ile Trp Ile Gln Thr His
180 185 190
Cys Phe Ser Leu Ser Leu Arg Asp Leu Gln His Ile Asn Tyr Lys Gln
195 200 205
Pro Glu Lys Gly Glu Leu Pro Pro Ala Val Ser Ser Asp Asn
210 215 220

<210> 2451

<211> 922

<212> PRT

<400> 2451

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Asp Lys Ser Ala Val Ser Gly Ala Ile Arg Leu His Ile Ser Val Glu
210 215 220
Ile Lys Gly Glu Glu Lys Val Ala Pro Tyr His Val Gln Tyr Thr Cys
225 230 235 240
Leu His Glu Asn Leu Phe His Phe Val Thr Asp Val Gln Asn Asn Gly
245 250 255
Val Val Lys Ile Pro Asp Ala Lys Gly Asp Asp Ala Trp Lys Val Tyr
260 265 270
Tyr Asp Glu Thr Ala Gln Glu Ile Val Asp Glu Phe Ala Met Arg Tyr
275 280 285
Gly Val Glu Ser Ile Tyr Gln Ala Met Thr His Phe Ala Cys Leu Ser
290 295 300
Ser Lys Tyr Met Cys Pro Gly Val Pro Ala Val Met Ser Thr Leu Leu
305 310 315 320
Ala Asn Ile Asn Ala Tyr Tyr Ala His Thr Thr Ala Ser Thr Asn Val
325 330 335
Ser Ala Ser Asp Arg Phe Ala Ala Ser Asn Phe Gly Lys Glu Arg Phe
340 345 350
Val Lys Leu Leu Asp Gln Leu His Asn Ser Leu Arg Ile Asp Leu Ser
355 360 365
Met Tyr Arg Asn Asn Phe Pro Ala Ser Ser Pro Glu Arg Leu Gln Asp
370 375 380
Leu Lys Ser Thr Val Asp Leu Leu Thr Ser Ile Thr Phe Phe Arg Met
385 390 395 400
Lys Val Gln Glu Leu Gln Ser Pro Pro Arg Ala Ser Gln Val Val Lys
405 410 415
Asp Cys Val Lys Ala Cys Leu Asn Ser Thr Tyr Glu Tyr Ile Phe Asn
420 425 430
Asn Cys His Glu Leu Tyr Ser Arg Glu Tyr Gln Thr Asp Pro Ala Lys

435 440 445
Lys Gly Glu Val Pro Pro Glu Glu Gln Gly Pro Ser Ile Lys Asn Leu
450 455 460
Asp Phe Trp Ser Lys Leu Ile Thr Leu Ile Val Ser Ile Ile Glu Glu
465 470 475 480
Asp Lys Asn Ser Tyr Thr Pro Cys Leu Asn Gln Phe Pro Gln Glu Leu
485 490 495
Asn Val Gly Lys Ile Ser Ala Glu Val Met Trp Asn Leu Phe Ala Gln
500 505 510
Asp Met Lys Tyr Ala Met Glu Glu His Asp Lys His Arg Leu Cys Lys
515 520 525
Ser Ala Asp Tyr Met Asn Leu His Phe Lys Val Lys Trp Leu Tyr Asn
530 535 540
Glu Tyr Val Thr Glu Leu Pro Ser Phe Lys Asp Arg Val Pro Glu Tyr
545 550 555 560
Pro Ala Trp Phe Glu Pro Phe Val Ile Gln Trp Leu Asp Glu Asn Glu
565 570 575
Glu Val Ser Arg Asp Phe Leu His Gly Ala Leu Glu Arg Asp Lys Lys
580 585 590
Asp Gly Phe Gln Gln Thr Ser Glu His Ala Leu Phe Ser Cys Ser Val
595 600 605
Val Asp Val Phe Ser Gln Leu Asn Gln Ser Phe Glu Ile Ile Lys Lys
610 615 620
Leu Glu Cys Pro Asp Pro Gln Ile Val Gly His Tyr Met Arg Arg Phe
625 630 635 640
Ala Lys Thr Ile Ser Asn Val Leu Leu Gln Tyr Ala Asp Ile Ile Ser
645 650 655
Lys Asp Phe Ala Ser Tyr Cys Ser Lys Glu Lys Glu Lys Val Pro Cys
660 665 670

Ile Leu Met Asn Asn Thr Gln Gln Leu Arg Val Gln Leu Glu Lys Met
675 680 685
Phe Glu Ala Met Gly Gly Lys Glu Leu Asp Ala Glu Ala Ser Asp Ile
690 695 700
Leu Lys Glu Leu Gln Val Lys Leu Asn Asn Val Leu Asp Glu Leu Ser
705 710 715 720
Arg Val Phe Ala Thr Ser Phe Gln Pro His Ile Glu Glu Cys Val Lys
725 730 735
Gln Met Gly Asp Ile Leu Ser Gln Val Lys Gly Thr Gly Asn Val Pro
740 745 750
Ala Ser Ala Cys Ser Ser Val Ala Gln Asp Ala Asp Asn Val Leu Gln
755 760 765
Pro Ile Met Asp Leu Leu Asp Ser Asn Leu Thr Leu Phe Ala Lys Ile
770 775 780
Cys Glu Lys Thr Val Leu Lys Arg Val Leu Lys Glu Leu Trp Lys Leu
785 790 795 800
Val Met Asn Thr Met Glu Lys Thr Ile Val Leu Pro Pro Leu Thr Asp
805 810 815
Gln Thr Met Ile Gly Asn Leu Leu Arg Lys His Gly Lys Gly Leu Glu
820 825 830
Lys Gly Arg Val Lys Leu Pro Ser His Ser Asp Gly Thr Gln Met Ile
835 840 845
Phe Asn Ala Ala Lys Glu Leu Gly Gln Leu Ser Lys Leu Lys Asp His
850 855 860
Met Val Arg Glu Glu Ala Lys Ser Leu Thr Pro Lys Gln Cys Ala Val
865 870 875 880
Val Glu Leu Ala Leu Asp Thr Ile Lys Gln Tyr Phe His Ala Gly Gly
885 890 895
Val Gly Leu Lys Lys Thr Phe Pro Ser Leu Ser Trp Val Met Leu Leu

900 905 910
 Pro Pro Cys Val Thr Phe Glu Ala Val Lys
 915 920

<210> 2452

<211> 380

<212> PRT

<213> Homo sapiens

<400> 2452

Met Ala His Arg Pro Thr Pro Val Pro Asn Pro Gly Val Met Ser Ala
 1 5 10 15
 Tyr Ala Met Cys Val Arg Tyr Asp Gly Val Glu Val Asp Asp Ser Tyr
 20 25 30
 Cys Asp Ala Leu Thr Arg Pro Glu Pro Val His Glu Phe Cys Ala Gly
 35 40 45
 Arg Glu Cys Gln Pro Arg Trp Glu Thr Ser Ser Trp Ser Glu Cys Ser
 50 55 60
 Arg Thr Cys Gly Glu Gly Tyr Gln Phe Arg Val Val Arg Cys Trp Lys
 65 70 75 80
 Met Leu Ser Pro Gly Phe Asp Ser Ser Val Tyr Ser Asp Leu Cys Glu
 85 90 95
 Ala Ala Glu Ala Val Arg Pro Glu Glu Arg Lys Thr Cys Arg Asn Pro
 100 105 110
 Ala Cys Gly Pro Gln Trp Glu Met Ser Glu Trp Ser Glu Cys Thr Ala
 115 120 125
 Lys Cys Gly Glu Arg Ser Val Val Thr Arg Asp Ile Arg Cys Ser Glu
 130 135 140

Asp Glu Lys Leu Cys Asp Pro Asn Thr Arg Pro Val Gly Glu Lys Asn
 145 150 155 160
 Cys Thr Gly Pro Pro Cys Asp Arg Gln Trp Thr Val Ser Asp Trp Gly
 165 170 175
 Pro Cys Ser Gly Ser Cys Gly Gln Gly Arg Thr Ile Arg His Val Tyr
 180 185 190
 Cys Lys Thr Ser Asp Gly Arg Val Val Pro Glu Ser Gln Cys Gln Met
 195 200 205
 Glu Thr Lys Pro Leu Ala Ile His Pro Cys Gly Asp Lys Asn Cys Pro
 210 215 220
 Ala His Trp Leu Ala Gln Asp Trp Glu Arg Cys Asn Thr Thr Cys Gly
 225 230 235 240
 Arg Gly Val Lys Lys Arg Leu Val Leu Cys Met Glu Leu Ala Asn Gly
 245 250 255
 Lys Pro Gln Thr Arg Ser Gly Pro Glu Cys Gly Leu Ala Lys Lys Pro
 260 265 270
 Pro Glu Glu Ser Thr Cys Phe Glu Arg Pro Cys Phe Lys Trp Tyr Thr
 275 280 285
 Ser Pro Trp Ser Glu Cys Thr Lys Thr Cys Gly Val Gly Val Arg Met
 290 295 300
 Arg Asp Val Lys Cys Tyr Gln Gly Thr Asp Ile Val Arg Gly Cys Asp
 305 310 315 320
 Pro Leu Val Lys Pro Val Gly Arg Gln Ala Cys Asp Leu Gln Pro Cys
 325 330 335
 Pro Thr Glu Pro Pro Asp Asp Ser Cys Gln Asp Gln Pro Gly Thr Asn
 340 345 350
 Cys Ala Leu Ala Ile Lys Val Asn Leu Cys Gly His Trp Tyr Tyr Ser
 355 360 365
 Lys Ala Cys Cys Arg Ser Cys Arg Pro Pro His Ser

370

375

380

<210> 2453

<211> 404

<212> PRT

<213> Homo sapiens

<400> 2453

Met Ala Asp Asn Leu Asp Glu Phe Ile Glu Glu Gln Lys Ala Arg Leu
1 5 10 15
Ala Glu Asp Lys Ala Glu Leu Glu Ser Asp Pro Pro Tyr Met Glu Met
20 25 30
Lys Gly Lys Leu Ser Ala Lys Leu Ser Glu Asn Ser Lys Ile Leu Ile
35 40 45
Ser Met Ala Lys Glu Asn Ile Pro Pro Asn Ser Gln Gln Thr Arg Gly
50 55 60
Ser Leu Gly Ile Asp Tyr Gly Leu Ser Leu Pro Leu Gly Glu Asp Tyr
65 70 75 80
Glu Arg Lys Lys His Lys Leu Lys Glu Glu Leu Arg Gln Asp Tyr Arg
85 90 95
Arg Tyr Leu Thr Gln Gly Ile Thr Gln Gly Lys Arg Lys Lys Asn Phe
100 105 110
Leu Ser Thr Ser Glu Thr Asp Pro Ser Thr Leu Gly Val Ser Leu Pro
115 120 125
Ile Gly Glu Arg Leu Ser Ala Lys Glu Arg Leu Lys Leu Glu Arg Asn
130 135 140
Lys Glu Tyr Asn Gln Phe Leu Arg Gly Lys Glu Glu Ser Ser Glu Lys
145 150 155 160

Phe Arg Gln Val Glu Lys Ser Thr Glu Pro Lys Ser Gln Arg Asn Lys
 165 170 175
 Lys Pro Ile Gly Gln Val Lys Pro Asp Leu Thr Ser Gln Ile Gln Thr
 180 185 190
 Ser Cys Glu Asn Ser Glu Gly Pro Arg Lys Asp Val Leu Thr Pro Ser
 195 200 205
 Glu Ala Tyr Glu Glu Leu Leu Asn Gln Arg Arg Leu Glu Glu Asp Arg
 210 215 220
 Tyr Arg Gln Leu Asp Asp Glu Ile Glu Leu Arg Asn Arg Arg Ile Ile
 225 230 235 240
 Lys Lys Ala Asn Glu Glu Val Gly Ile Ser Asn Leu Lys His Gln Arg
 245 250 255
 Phe Ala Ser Lys Ala Gly Ile Pro Asp Arg Arg Phe His Arg Phe Asn
 260 265 270
 Glu Asp Arg Val Phe Asp Arg Arg Tyr His Arg Pro Asp Gln Asp Pro
 275 280 285
 Glu Val Ser Glu Glu Met Asp Glu Arg Phe Arg Tyr Glu Ser Asp Phe
 290 295 300
 Asp Arg Arg Leu Ser Arg Val Tyr Thr Asn Asp Arg Met His Arg Asn
 305 310 315 320
 Lys Arg Gly Asn Met Pro Pro Met Glu His Asp Gly Asp Val Ile Glu
 325 330 335
 Gln Ser Asn Ile Arg Ile Ser Ser Ala Glu Asn Lys Ser Ala Pro Asp
 340 345 350
 Asn Glu Thr Ser Lys Ser Ala Asn Gln Asp Thr Cys Ser Pro Phe Ala
 355 360 365
 Gly Met Leu Phe Gly Gly Glu Asp Arg Glu Leu Ile Gln Arg Arg Lys
 370 375 380
 Glu Lys Tyr Arg Leu Glu Leu Leu Glu Gln Met Ala Glu Gln Gln Arg

385 390 395 400
Asn Lys Arg Arg

<210> 2454

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2454

Met Phe Arg Ser Gly Gln Lys Ser Pro Cys Asn Pro Cys Leu Pro Ser
1 5 10 15
Leu Ser His Thr Leu Arg Ala Ile Pro Gln Gln Ile Leu Leu Ala Leu
20 25 30
Ser Ser Asn Tyr Ile Gln Asn Leu Thr Asn Ser His His Leu His Tyr
35 40 45
His His Pro Phe Pro Ala Thr Ile Ile Thr Cys Leu Asp Tyr Cys His
50 55 60
Arg Leu Leu Ser Cys Leu Pro Ala Ser Ser Trp Val Pro Glu Val Tyr
65 70 75 80
Ser Pro Cys Ser His Leu Leu Lys Cys Glu Ser Gln His Leu Thr Ala
85 90 95
Leu Gln Ser Leu Leu Trp Leu Pro Ile Ser Leu Thr Ala Lys Ala Lys
100 105 110
Ala Arg Ala Arg Pro Trp Leu Ser Asp Leu Ile Ser Asn Cys Pro Pro
115 120 125
His Ser Ala Pro Val Thr Pro Val Cys Phe Asn Tyr Trp Gln Arg Pro
130 135 140

出証特 2 0 0 4 - 3 0 5 9 6 6 1

100	105	110
Pro Pro Glu Asp Cys Val Leu Arg		
115	120	

<210> 2456

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2456

Met Ala Leu Gln Pro Arg Pro Pro Gly Leu Lys Arg Ser Ser His Leu			
1	5	10	15
Ser Leu Pro Glu Cys Trp Gly Tyr Arg His Glu Pro Leu His Leu Ala			
20	25	30	
Glu Ser Tyr Phe Leu Gln Lys Trp Asp Gln Ala Gln Trp Trp Leu Ala			
35	40	45	
Pro Val Val Pro Ala Thr Trp Glu Val Glu Val Gly Gly Leu Leu Glu			
50	55	60	
Ala Arg Ser Leu Arg Pro Val Trp Ala Thr Gln His Asp Ser Asp Gln			
65	70	75	80
Ser Gly Gln His Ser Met Thr Leu Ser Leu Lys Lys Lys Lys Lys Trp			
85	90	95	
Ala Glu Gly Gly Gly			
100			

<210> 2457

<211> 1033

<212> PRT

<213> Homo sapiens

<400> 2457

Met	Phe	Thr	Ile	Ser	Ser	Asp	Gln	Arg	Met	Leu	Thr	Asn	Arg	Gln	Leu
1				5					10					15	
Ser	Arg	His	Leu	Val	Gly	Leu	Trp	Thr	Ala	Asp	Asn	Ala	Thr	Ala	Thr
			20					25					30		
Asn	Leu	Leu	Lys	Arg	Ile	Leu	Pro	Pro	Gly	Leu	Leu	Ala	Tyr	Leu	Glu
		35					40						45		
Ser	Ser	Asp	Leu	Val	Pro	Glu	Lys	Asp	Ala	Asp	Arg	Met	His	Val	Arg
		50					55					60			
Asp	Asn	Val	Lys	Ile	Ala	Met	Asp	Gln	Tyr	Gly	Lys	Phe	Asn	Lys	Val
65				70					75					80	
Pro	Glu	Trp	Gln	Arg	Leu	Ala	Gly	Lys	Ala	Ala	Lys	Glu	Val	Glu	Lys
				85					90					95	
Phe	Ala	Lys	Glu	Lys	Val	Asp	Leu	Val	Leu	Met	His	Trp	Arg	Asp	Arg
			100						105					110	
Met	Gly	Ile	Ala	Gln	Lys	Glu	Asn	Ile	Asn	Gln	Lys	Pro	Val	Val	Leu
			115					120						125	
Arg	Lys	Arg	Arg	Gln	Arg	Ile	Lys	Ile	Glu	Ala	Asn	Trp	Asp	Leu	Phe
			130					135					140		
Tyr	Tyr	Arg	Phe	Gly	Gln	Asp	His	Ala	Arg	Ser	Asn	Leu	Ile	Trp	Asn
145					150					155				160	
Phe	Lys	Thr	Arg	Glu	Glu	Leu	Lys	Asp	Thr	Leu	Glu	Ser	Glu	Met	Arg
				165					170					175	
Ala	Phe	Asn	Ile	Asp	Arg	Glu	Leu	Gly	Ser	Ala	Asn	Val	Ile	Ser	Trp
			180						185					190	
Asn	His	His	Glu	Phe	Glu	Val	Lys	Tyr	Glu	Cys	Leu	Ala	Glu	Glu	Ile

195	200	205
Lys Ile Gly Asp Tyr Tyr Leu Arg Leu Leu Leu Glu Glu Asp Glu Asn		
210	215	220
Glu Glu Ser Gly Ser Ile Lys Arg Ser Tyr Glu Phe Phe Asn Glu Leu		
225	230	235
Tyr His Arg Phe Leu Leu Thr Pro Lys Val Asn Met Lys Cys Leu Cys		
245	250	255
Leu Gln Ala Leu Ala Ile Val Tyr Gly Arg Cys His Glu Glu Ile Gly		
260	265	270
Pro Phe Thr Asp Thr Arg Tyr Ile Ile Gly Met Leu Glu Arg Cys Thr		
275	280	285
Asp Lys Leu Glu Arg Asp Arg Leu Ile Leu Phe Leu Asn Lys Leu Ile		
290	295	300
Leu Asn Lys Lys Asn Val Lys Asp Leu Met Asp Ser Asn Gly Ile Arg		
305	310	315
Ile Leu Val Asp Leu Leu Thr Leu Ala His Leu His Val Ser Arg Ala		
325	330	335
Thr Val Pro Leu Gln Ser Asn Val Ile Glu Ala Ala Pro Asp Met Lys		
340	345	350
Arg Glu Ser Glu Lys Glu Trp Tyr Phe Gly Asn Ala Asp Lys Glu Arg		
355	360	365
Ser Gly Pro Tyr Gly Phe His Glu Met Gln Glu Leu Trp Thr Lys Gly		
370	375	380
Met Leu Asn Ala Lys Thr Arg Cys Trp Ala Gln Gly Met Asp Gly Trp		
385	390	395
Arg Pro Leu Gln Ser Ile Pro Gln Leu Lys Trp Cys Leu Leu Ala Ser		
405	410	415
Gly Gln Ala Val Leu Asn Glu Thr Asp Leu Ala Thr Leu Ile Leu Asn		
420	425	430

Met Leu Ile Thr Met Cys Gly Tyr Phe Pro Ser Arg Asp Gln Asp Asn
435 440 445

Ala Ile Ile Arg Pro Leu Pro Lys Val Lys Arg Leu Leu Ser Asp Ser
450 455 460

Thr Cys Leu Pro His Ile Ile Gln Leu Leu Leu Thr Phe Asp Pro Ile
465 470 475 480

Leu Val Glu Lys Val Ala Ile Leu Leu Tyr His Ile Met Gln Asp Asn
485 490 495

Pro Gln Leu Pro Arg Leu Tyr Leu Ser Gly Val Phe Phe Phe Ile Met
500 505 510

Met Tyr Thr Gly Ser Asn Val Leu Pro Val Ala Arg Phe Leu Lys Tyr
515 520 525

Thr His Ile Lys Gln Ala Phe Lys Ser Glu Glu Thr Lys Gly Gln Asp
530 535 540

Ile Phe Gln Arg Ser Ile Leu Gly His Ile Leu Pro Glu Ala Met Val
545 550 555 560

Cys Tyr Leu Glu Asn Tyr Glu Pro Glu Lys Phe Ser Glu Ile Phe Leu
565 570 575

Gly Glu Phe Asp Thr Pro Glu Ala Ile Trp Ser Ser Glu Met Arg Arg
580 585 590

Leu Met Ile Glu Lys Ile Ala Ala His Leu Ala Asp Phe Thr Pro Arg
595 600 605

Leu Gln Ser Asn Ala Arg Ala Leu Tyr Gln Tyr Cys Pro Ile Pro Ile
610 615 620

Ile Asn Tyr Pro Gln Leu Glu Asn Glu Leu Phe Cys Asn Ile Tyr Tyr
625 630 635 640

Leu Lys Gln Leu Cys Asp Thr Leu Arg Phe Pro Asp Trp Pro Ile Lys
645 650 655

Asp Pro Val Lys Leu Leu Lys Asp Thr Leu Asp Ala Trp Lys Lys Glu

660	665	670
Val Glu Lys Lys Pro Pro Met Met Ser Ile Asp Asp Ala Tyr Glu Val		
675	680	685
Leu Asn Leu Pro Gln Gly Gln Gly Pro His Asp Glu Ser Lys Ile Arg		
690	695	700
Lys Ala Tyr Phe Arg Leu Ala Gln Lys Tyr His Pro Asp Lys Asn Pro		
705	710	715
Glu Gly Arg Asp Met Phe Glu Lys Val Asn Lys Ala Tyr Glu Phe Leu		
725	730	735
Cys Thr Lys Ser Ala Lys Ile Val Asp Gly Pro Asp Pro Glu Asn Ile		
740	745	750
Ile Leu Ile Leu Lys Thr Gln Ser Ile Leu Phe Asn Arg His Lys Glu		
755	760	765
Asp Leu Gln Pro Tyr Lys Tyr Ala Gly Tyr Pro Met Leu Ile Arg Thr		
770	775	780
Ile Thr Met Glu Thr Ser Asp Asp Leu Leu Phe Ser Lys Glu Ser Pro		
785	790	795
Leu Leu Pro Ala Ala Thr Glu Leu Ala Phe His Thr Val Asn Cys Ser		
805	810	815
Ala Leu Asn Ala Glu Glu Leu Arg Arg Glu Asn Gly Leu Glu Val Leu		
820	825	830
Gln Glu Ala Phe Ser Arg Cys Val Ala Val Leu Thr Arg Ser Ser Lys		
835	840	845
Pro Ser Asp Met Ser Val Gln Val Cys Gly Tyr Ile Ser Lys Cys Tyr		
850	855	860
Ser Val Ala Ala Gln Phe Glu Glu Cys Arg Glu Lys Ile Thr Glu Met		
865	870	875
Pro Ser Ile Ile Lys Asp Leu Cys Arg Val Leu Tyr Phe Gly Lys Ser		
885	890	895

Ile Pro Arg Val Ala Ala Leu Gly Val Glu Cys Val Ser Ser Phe Ala
 900 905 910
 Val Asp Phe Trp Leu Gln Thr His Leu Phe Gln Ala Gly Ile Leu Trp
 915 920 925
 Tyr Leu Leu Gly Phe Leu Phe Asn Tyr Asp Tyr Thr Leu Glu Glu Ser
 930 935 940
 Gly Ile Gln Lys Ser Glu Glu Thr Asn Gln Gln Glu Val Ala Asn Ser
 945 950 955 960
 Leu Ala Lys Leu Ser Val His Ala Leu Ser Arg Leu Gly Gly Tyr Leu
 965 970 975
 Ala Glu Glu Gln Ala Thr Pro Glu Asn Pro Thr Ile Arg Lys Ser Leu
 980 985 990
 Ala Gly Met Leu Thr Pro Tyr Val Ala Arg Lys Leu Ala Val Ala Ser
 995 1000 1005
 Val Thr Glu Ile Leu Lys Met Leu Asn Ser Asn Thr Glu Ser Pro Tyr
 1010 1015 1020
 Leu Ile Trp Asn Asn Ser Thr Arg Ala
 1025 1030

<210> 2458

<211> 273

<212> PRT

<213> Homo sapiens

<400> 2458

Met Pro Asp Leu Ser Lys Asp Ser Gly Met Asn Val Ser Glu Lys Leu
 1 5 10 15
 Ser Asn Met Gly Thr Leu Asn Ser Ser Met Gln Phe Arg Ser Ala Glu

20	25	30
Ser Val Arg Ser Leu Leu Ser	Ala Gln Gln Tyr Gln Glu Met Glu Gly	
35	40	45
Asn Leu His Gln Leu Ser Asn Pro	Ile Gly Tyr Arg Asp Leu Gln Ser	
50	55	60
His Gly Arg Met His Gln Ser Phe	Asp Phe Asp Gly Gly Met Ala Gly	
65	70	75
Ser Lys Leu Pro Gly His Glu Gly	Val Arg Ile Gln Pro Met Ser Glu	
85	90	95
Arg Thr Arg Arg Arg Ala Thr Ser	Arg Asp Asp Asn Arg Arg Phe Arg	
100	105	110
Pro His Arg Ser Arg Arg Ser Arg	Arg Ser Arg Ser Asp Asn Ala Leu	
115	120	125
His Leu Ala Ser Glu Arg Glu Ala	Ile Ser Arg Leu Lys Asp Arg Pro	
130	135	140
Pro Leu Arg Ala Arg Glu Asp Tyr	Asp Gln Phe Met Arg Gln Arg Ser	
145	150	155
Phe Gln Glu Ser Met Gly His Gly	Ser Arg Arg Asp Leu Tyr Gly Gln	
165	170	175
Cys Pro Arg Thr Val Ser Asp Leu	Ala Leu Gln Asn Ala Phe Gly Asp	
180	185	190
Arg Trp Gly Pro Tyr Phe Ala Glu	Tyr Asp Trp Cys Ser Thr Cys Ser	
195	200	205
Ser Ser Ser Glu Ser Asp Asn Glu	Gly Tyr Phe Leu Gly Glu Pro Ile	
210	215	220
Pro Gln Pro Ala Arg Leu Arg Tyr	Val Thr Ser Asp Glu Leu Leu His	
225	230	235
Lys Tyr Ser Ser Tyr Gly Leu Pro	Lys Ser Ser Thr Leu Gly Gly Arg	
245	250	255

Gly Gln Leu His Ser Arg Lys Arg Gln Lys Ser Lys Asn Cys Ile Ile

260

265

270

Ser

<210> 2459

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2459

Met Arg Ser Trp Gln Gln Arg Leu Met Asn Leu Thr Glu Leu Tyr Leu

1

5

10

15

Glu Gln Ile Glu Ile Val Arg Gln Tyr Ser Lys Ile Thr Ala Ala Gln

20

25

30

Asn His Arg Arg Ile Ser Ser Pro Val Ile Pro His Leu Leu Thr Gln

35

40

45

Glu Ser Met Ser Val Asn Ala Ser His Gly Lys Gly Phe Ser Arg Pro

50

55

60

Ala Arg Pro Ala Asn Arg Arg Leu Pro Ser Arg Trp Ala Ser Arg Ser

65

70

75

80

Pro Ser Ala Pro Pro Ala Leu Arg Arg Thr Thr His Asn Tyr Thr Ile

85

90

95

Ser Leu Arg Ser Glu Ala Leu Met Val

100

105

<210> 2460

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2460

Met Phe Pro Arg Phe Ile Ser Thr Ser Leu Phe Phe Ile Thr Lys Leu

1 5 10 15

Tyr Ser Thr Val Leu Ile Tyr Asn Trp Phe Ser Leu Phe Leu Gly Val

20 25 30

Leu Phe Cys Lys Val Thr Ala Asn Ile Glu Leu Ala Asn Ile Glu Pro

35 40 45

Leu Pro Leu Gln Glu Ile Glu Leu Gly Ser Cys Lys Pro Leu Val Thr

50 55 60

Phe Leu Pro Thr Asp Arg Tyr Val Ile Leu Phe Tyr Val Tyr Phe Cys

65 70 75 80

Leu Lys Thr Thr Asn Leu Ile Tyr Asn Val Ser Ile Tyr Leu Tyr Thr

85 90 95

Tyr Val His Met Tyr Ile Cys Ile Ile Cys Ala Tyr Ile Tyr Ser Trp

100 105 110

Phe Ile Asn Ile Glu Val Met Ala Asn Ser Ile Ser Thr His Ile Ser

115 120 125

Glu Gly Gly Gly Leu Trp Gly Gly Val Phe Ser Trp Arg Ala Ser Gln

130 135 140

His Arg Tyr Thr Cys Val Asp Leu Lys Ser Pro Lys Leu Gly Gly Pro

145 150 155 160

Ala His Pro Gly Leu Pro Trp Ala Glu Gly Phe Pro Arg Arg Val Asn

165 170 175

Phe Gln Cys

<210> 2461

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2461

Met Arg Ser Pro Leu Arg Leu Asp Leu Gly Ser Asn Met Ala Gly Leu
1 5 10 15
Ser Leu Val Gly Pro Asp Ala Asn Phe His Pro Ser Gln Ile Leu Gly
20 25 30
Ile Gln Ala Leu Ser Pro Ala Lys Pro Gln Ala Gly Ser Thr Ala Trp
35 40 45
Thr Gly Lys Gln Asp Ile Leu Ala Leu Leu Gln Ser Pro Glu Ile Lys
50 55 60
Gln Arg Arg Ala Ala Leu Pro Gln Glu Gly Leu Thr Pro Ser Leu Pro
65 70 75 80
Ser Ser Leu Pro Ser Ser Thr Pro Leu Pro Phe Pro Leu His His Arg
85 90 95
Pro Asn Ser Leu Ser Arg Gln Ala His Pro Pro Ser Phe Leu Pro Leu
100 105 110
Ser Leu Gln Gly Phe Cys Pro Phe Pro Gly Ser Ala Pro His Lys Ser
115 120 125
Trp Pro Arg Val Lys Ile Pro Tyr Pro Gly Arg Arg Cys Gly Ser Arg
130 135 140
Leu
145

<210> 2462

<211> 632

<212> PRT

<213> Homo sapiens

<400> 2462

Met Trp Tyr Ala Leu Ser Tyr Tyr His His Tyr Tyr Tyr Ser Leu Val

1 5 10 15

Met Ser Gly Pro Phe Leu Ile Pro Leu His Asn Ser Leu Pro Gln Gly

20 25 30

Gly Tyr Asn Leu Arg Ala Leu Ala Glu Gly Val Ser Ala Ser Leu His

35 40 45

Thr Leu Leu Gly Asp Pro Cys Pro Met Leu Glu Ser Pro Gly Ala Pro

50 55 60

Cys Arg Ser Ala Gln Ala Ser Val Ser Cys Ala Leu Glu Ala Leu Glu

65 70 75 80

Pro Phe Trp Glu Val Leu Val Arg Ser Thr Glu Thr Val Glu Arg Asp

85 90 95

Asn Met Glu Glu Asp Asn Val Glu Glu Ser Glu Glu Glu Gly Pro Trp

100 105 110

Glu Pro Pro Val Leu Pro Ile Leu Thr Trp Pro Val Leu Gln Ser Arg

115 120 125

Thr Gly Leu Val Tyr Asp Gln Asn Met Met Asn His Cys Asn Leu Trp

130 135 140

Asp Ser His His Pro Glu Val Pro Gln Arg Ile Leu Arg Ile Met Cys

145 150 155 160

Arg Leu Glu Glu Leu Gly Leu Ala Gly Arg Cys Leu Thr Leu Thr Pro

165 170 175

Arg Pro Ala Thr Glu Ala Glu Leu Leu Thr Cys His Ser Ala Glu Tyr
180 185 190
Val Gly His Leu Arg Ala Thr Glu Lys Met Lys Thr Arg Glu Leu His
195 200 205
Arg Glu Ser Ser Asn Phe Asp Ser Ile Tyr Ile Cys Pro Ser Thr Phe
210 215 220
Ala Cys Ala Gln Leu Ala Thr Gly Ala Ala Cys Arg Leu Val Glu Ala
225 230 235 240
Val Leu Ser Gly Glu Val Leu Asn Gly Ala Ala Val Val Arg Pro Pro
245 250 255
Gly His His Ala Glu Gln Asp Ala Ala Cys Gly Phe Cys Phe Phe Asn
260 265 270
Ser Val Ala Val Ala Ala Arg His Ala Gln Thr Ile Ser Gly His Ala
275 280 285
Leu Arg Ile Leu Ile Val Asp Trp Asp Val His His Gly Asn Gly Thr
290 295 300
Gln His Met Phe Glu Asp Asp Pro Asn Val Leu Tyr Val Ser Leu His
305 310 315 320
Arg Tyr Asp His Gly Thr Phe Phe Pro Met Gly Asp Glu Gly Ala Ser
325 330 335
Ser Gln Ile Gly Arg Ala Ala Gly Thr Gly Phe Thr Val Asn Val Ala
340 345 350
Trp Asn Gly Pro Arg Met Gly Asp Ala Asp Tyr Leu Ala Ala Trp His
355 360 365
Arg Leu Val Leu Pro Ile Ala Tyr Glu Phe Asn Pro Glu Leu Val Leu
370 375 380
Val Ser Ala Gly Phe Asp Ala Ala Arg Gly Asp Pro Leu Gly Gly Cys
385 390 395 400
Gln Val Ser Pro Glu Gly Tyr Ala His Leu Thr His Leu Leu Met Gly

405	410	415
Leu Ala Ser Gly Arg Ile Ile Leu Ile Leu Glu Gly Gly Tyr Asn Leu		
420	425	430
Thr Ser Ile Ser Glu Ser Met Ala Ala Cys Thr Arg Ser Leu Leu Gly		
435	440	445
Asp Pro Pro Pro Leu Leu Thr Leu Pro Arg Pro Pro Leu Ser Gly Ala		
450	455	460
Leu Ala Ser Ile Thr Glu Thr Ile Gln Val His Arg Arg Tyr Trp Arg		
465	470	475
Ser Leu Arg Val Met Lys Val Glu Asp Arg Glu Gly Pro Ser Ser Ser		
485	490	495
Lys Leu Val Thr Lys Lys Ala Pro Gln Pro Ala Lys Pro Arg Leu Ala		
500	505	510
Glu Arg Met Thr Thr Arg Glu Lys Lys Val Leu Glu Ala Gly Met Gly		
515	520	525
Lys Val Thr Ser Ala Ser Phe Gly Glu Glu Ser Thr Pro Gly Gln Thr		
530	535	540
Asn Ser Glu Thr Ala Val Val Ala Leu Thr Gln Asp Gln Pro Ser Glu		
545	550	555
Ala Ala Thr Gly Gly Ala Thr Leu Ala Gln Thr Ile Ser Glu Ala Ala		
565	570	575
Ile Gly Gly Ala Met Leu Gly Gln Thr Thr Ser Glu Glu Ala Val Gly		
580	585	590
Gly Ala Thr Arg Thr Arg Pro Pro Gln Arg Arg Leu Trp Glu Glu Pro		
595	600	605
Phe Trp Thr Arg Pro Pro Gln Arg Met Leu Leu Gly Glu Pro Arg Trp		
610	615	620
Ala Arg Leu Pro Gln Arg Arg Leu		
625	630	

<210> 2463

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2463

Met Ala Arg His Gly Gly Thr His Leu Trp Ser Gln Leu Leu Gly Arg

1 5 10 15

Leu Arg Gln Glu Asn Arg Leu Ser Leu Gly Gly Gly Gly Cys Ser Glu

20 25 30

Leu Arg Ser Cys His Cys Thr Pro Ala Trp Val Thr Glu Arg Asp Pro

35 40 45

Val Leu Lys Asn Lys Lys Gln Thr Lys Lys Gln Phe Leu Arg Gly Ser

50 55 60

Ser Leu Ser Ser Cys Asn Arg Val His Lys Pro Leu His Ser Leu Ala

65 70 75 80

Cys Pro Tyr Asn Ser Ser Phe Thr Pro Cys Tyr Ser Pro Ser Tyr Leu

85 90 95

Ala Ile His His Phe Glu Leu Val Ser Ile Val

100 105

<210> 2464

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2464

Met Ala Phe Gly Glu Pro Pro Ser Gly His Ser Thr Arg His Arg Thr
 1 5 10 15
 Leu His Gly Leu Ser Phe His Thr Ala Met Gly Met Ala Trp Ser Leu
 20 25 30
 His Tyr Gln Gly Gln Gly Gly Thr Leu Cys Leu Val Gly Val Ser Thr
 35 40 45
 Pro Ser His Asp Lys Ala Val Leu Gln Gly Leu Pro His Phe Ser Val
 50 55 60
 Asn Leu Gly Val Gln Pro Ser Ala Leu Ala Gly Arg Arg Gly Asp Ala
 65 70 75 80
 Ser Cys Pro Ser Ser Trp Arg Ser Ala Asp Pro Thr Val Ser Pro Asn
 85 90 95
 Leu Gly Ala Pro Gly Gly Pro Asn Ala Ile Asp Ala Leu His Gly Glu
 100 105 110
 Gln Leu Gly Leu Phe Leu Arg Thr Lys Met Gly Arg Asp Pro Lys Asp
 115 120 125
 Val His Gly Leu Thr Pro Ala Leu Cys Gly Pro Cys Leu Ala Gly Leu
 130 135 140
 Pro Ser Ser His Ser Pro Gln Phe Ser Cys Asn Thr Ala Pro Leu Lys
 145 150 155 160
 Met Leu Ser

<210> 2465

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2465

Met Leu Glu Arg Gly Lys Glu Glu Phe Tyr Tyr Leu Val Cys Cys Thr
1 5 10 15
Tyr Ser Phe Val Val Val Phe Leu Phe Glu Thr Glu Phe His Ser Cys
20 25 30
Cys Pro Gly Trp Ser Ala Val Ala Arg Ser Trp Leu Thr Ala Thr Ser
35 40 45
Ala Tyr Arg Phe Lys Arg Phe Ser Cys Leu Ser Leu Leu Ser Asn Trp
50 55 60
Asp Tyr Arg His Ala Pro Pro Arg Pro Ala Asn Phe Val Leu Leu Val
65 70 75 80
Glu Met Gly Phe Leu His Val Gly Gln Ala Gly Leu Glu Leu Gln Thr
85 90 95
Ser Gly Asp Pro Pro Ala Trp Ala Ser Gln Asn Ala Gly Asn Thr Gly
100 105 110
Met Ser His Gly Ala Trp Pro Ala Ala His Ile Leu Thr Pro Cys Val
115 120 125
Trp

<210> 2466

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2466

Met Arg Ala Pro Leu Met Asn Gly Ile Ser Ala Leu Ile Lys Gln Val

1	5	10	15
Glu Gly Ser Tyr Leu Ala Ser Phe Thr Met Arg Arg His Ser Ile His			
20	25	30	
Leu Phe His His Ser Leu Val Leu Asn Leu Pro Ala Ser Arg Thr Val			
35	40	45	
Arg Asn Lys Phe Leu Leu Phe Pro Asn Tyr Gln Val Ile Ile Gln Val			
50	55	60	
Phe Ala Ile Val Ala Gln Val Asp Glu Asp Ile Asp Leu Pro Val Ile			
65	70	75	80
Ile Ala Thr Thr Ser Cys Lys Leu Leu Pro Thr Gly Gly Tyr Phe Phe			
85	90	95	
Asn Leu Arg Glu His Ser Phe Leu Ile His Lys Asn Leu			
100	105		

<210> 2467

<211> 205

<212> PRT

<213> Homo sapiens

<400> 2467

Met Thr Arg Met Asp Pro Tyr Cys Arg Leu Arg Leu Gly Tyr Ala Val			
1	5	10	15
Tyr Glu Thr Pro Thr Ala His Asn Gly Ala Lys Asn Pro Arg Trp Asn			
20	25	30	
Lys Val Ile His Cys Thr Val Pro Pro Gly Val Asp Ser Phe Tyr Leu			
35	40	45	
Glu Ile Phe Asp Glu Arg Ala Phe Ser Met Asp Asp Arg Ile Ala Trp			
50	55	60	

Thr His Ile Thr Ile Pro Glu Ser Leu Arg Gln Gly Lys Val Glu Asp
 65 70 75 80
 Lys Trp Tyr Ser Leu Ser Gly Arg Gln Gly Asp Asp Lys Glu Gly Met
 85 90 95
 Ile Asn Leu Val Met Ser Tyr Ala Leu Leu Pro Ala Ala Met Val Met
 100 105 110
 Pro Pro Gln Pro Val Val Leu Met Pro Thr Val Tyr Gln Gln Gly Val
 115 120 125
 Gly Tyr Val Pro Ile Thr Gly Met Pro Ala Val Cys Ser Pro Gly Met
 130 135 140
 Val Pro Val Ala Leu Pro Pro Ala Ala Val Asn Ala Gln Pro Arg Cys
 145 150 155 160
 Ser Glu Glu Asp Leu Lys Ala Ile Gln Asp Met Phe Pro Asn Met Asp
 165 170 175
 Gln Glu Val Ile Arg Ser Val Leu Glu Ala Gln Arg Gly Asn Lys Asp
 180 185 190
 Ala Ala Ile Asn Ser Leu Leu Gln Met Gly Glu Glu Pro
 195 200 205

<210> 2468

<211> 971

<212> PRT

<213> Homo sapiens

<400> 2468

Met Asn Glu Ile Gln Glu Tyr Lys Thr Ser Leu Pro Leu His Pro Pro
 1 5 10 15
 Ser Cys Leu Ala Arg Phe Leu Leu Phe Arg Val Gly Leu Pro Ile Cys

20	25	30
Arg Val Pro Ala Ser Leu Val Gly Phe Ala Cys Lys Gly Pro Leu Arg		
35	40	45
Thr Leu Leu Gly Glu Asn Gln Leu Arg Gln Asp Ser Arg Ser Cys Leu		
50	55	60
Val Ala Ser Cys Leu Thr Ser Glu Leu Val Lys Leu Ser Ala Glu Glu		
65	70	75
Val Pro Glu Pro Ala Glu Cys Lys Ser Glu Gln Ser Pro Glu Ser Arg		
85	90	95
Thr Gln Glu Pro Gln Gly Thr Gln Leu Ala Pro Arg Ala Ala Asp Glu		
100	105	110
Arg Glu Thr Gln Lys His Leu Trp Gly Ile Ser Val Gln Ala Gly Asn		
115	120	125
Gln Thr Ser Asn Tyr Thr Ser Lys Tyr Val Leu Ser Glu Glu Ser Lys		
130	135	140
Ser Pro Thr Arg Ala Lys Phe Pro Arg Gln Pro Ser Ser Glu Gly Thr		
145	150	155
Gln Val Trp Ser Gly Asp Leu Met Gly Cys Leu Glu Val Ser Asp Ser		
165	170	175
Ser Asp Ala Pro Glu Thr Thr Gln Lys Ser Ser Ala Ile Asp Thr Ser		
180	185	190
Lys Ala Ala Glu Glu Ala Met Val Leu Asp Pro Asn Tyr Arg Glu Gln		
195	200	205
Ala Leu Gln Gly Leu Ser Glu Phe Lys Ala Ala Thr Val Ser His Cys		
210	215	220
Gly Pro Gly Ala Glu Glu Gly Glu Gln Gly Pro Gly Gly Ala Gly Gly		
225	230	235
Arg Gln Leu Glu Pro Lys Ala Gly Gly Glu Ala Ser Arg Gly Arg Gly		
245	250	255

Ala Leu Ile Ile Val Ala Val Glu Gln Lys Gly Leu Gln Ala Ser Arg
260 265 270
Ser Asn Ala Gly Pro Val Pro Glu Thr Leu Pro Arg Asp Phe Pro Lys
275 280 285
Glu Arg Pro Glu Ser Pro Leu Ser Thr Gly Glu Thr Pro Cys Glu Ser
290 295 300
Pro Thr Arg Gly Lys Thr Pro Ala Gly Asn Glu Cys Glu Leu Pro Ala
305 310 315 320
Ala Pro Ile Gln Gly Ala Gly Asp Gly Ala Leu Gln Arg Val Ala Gln
325 330 335
Ala Ala Glu Leu Gly Arg Val Leu Val Pro Gln Ala Ala Ser Glu Glu
340 345 350
Thr Pro Ser Thr Glu Glu Pro Pro Gly Glu Arg Leu Arg Gly Glu Ser
355 360 365
Arg Ser Ser Gly Ser Gly Glu Arg Gly Pro Glu Glu Ala Pro Glu Gly
370 375 380
Gly Ala Ala Ala Ala Arg Gly Gln Arg Pro Arg Val Pro Ala Leu Glu
385 390 395 400
Pro Pro Gln Pro Pro Arg Gly Leu Arg Lys Gly Ala Gln Glu Pro Gly
405 410 415
Lys Arg Pro Thr Phe Ser Lys Val Thr Ser Phe Arg Lys Gly Arg Pro
420 425 430
Leu Ala Thr Glu Ser Pro Gly Gly Val Pro Ala Pro Thr Thr Glu Gly
435 440 445
Arg Arg Trp Gly Ser Ser Gly Pro Glu Gly Leu Pro Arg Glu Asn Pro
450 455 460
Pro Ala Ala Ala Gly Arg Asp Ala Pro Pro Leu His His Gly Asp Ala
465 470 475 480
Ser Ala Trp Pro Glu Phe Val Pro Gln Ala Ala Gly Asp Arg Thr Ala

出証特 2 0 0 4 - 3 0 5 9 6 6 1

出証特 2 0 0 4 - 3 0 5 9 6 6 1

945 950 955 960
 Ser Leu Phe Cys Tyr Val Leu Trp Ile Leu Ala
 965 970

<210> 2469

<211> 581

<212> PRT

<213> Homo sapiens

<400> 2469

Met Leu Glu Lys Lys Ile Arg Thr Ser Ser Met Pro Glu Gln Ala His
 1 5 10 15
 Lys Val Cys Val Lys Glu Ile Lys Arg Leu Lys Lys Met Pro Gln Ser
 20 25 30
 Met Pro Glu Tyr Ala Leu Thr Arg Asn Tyr Leu Glu Leu Met Val Glu
 35 40 45
 Leu Pro Trp Asn Lys Ser Thr Thr Asp Arg Leu Asp Ile Arg Ala Ala
 50 55 60
 Arg Ile Leu Leu Asp Asn Asp His Tyr Ala Met Glu Lys Leu Lys Lys
 65 70 75 80
 Arg Val Leu Glu Tyr Leu Ala Val Arg Gln Leu Lys Asn Asn Leu Lys
 85 90 95
 Gly Pro Ile Leu Cys Phe Val Gly Pro Pro Gly Val Gly Lys Thr Ser
 100 105 110
 Val Gly Arg Ser Val Ala Lys Thr Leu Gly Arg Glu Phe His Arg Ile
 115 120 125
 Ala Leu Gly Gly Val Cys Asp Gln Ser Asp Ile Arg Gly His Arg Arg
 130 135 140

Thr Tyr Val Gly Ser Met Pro Gly Arg Ile Ile Asn Gly Leu Lys Thr
145 150 155 160
Val Gly Val Asn Asn Pro Val Phe Leu Leu Asp Glu Val Asp Lys Leu
165 170 175
Gly Lys Ser Leu Gln Gly Asp Pro Ala Ala Ala Leu Leu Glu Val Leu
180 185 190
Asp Pro Glu Gln Asn His Asn Phe Thr Asp Leu Tyr Leu Asn Val Ala
195 200 205
Phe Asp Leu Ser Gln Val Leu Phe Ile Ala Thr Ala Asn Thr Thr Ala
210 215 220
Thr Ile Pro Ala Ala Leu Leu Asp Arg Met Glu Ile Ile Gln Val Pro
225 230 235 240
Gly Tyr Thr Gln Glu Glu Lys Ile Glu Ile Ala His Arg His Leu Ile
245 250 255
Pro Lys Gln Leu Glu Gln His Gly Leu Thr Pro Gln Gln Ile Gln Ile
260 265 270
Pro Gln Val Thr Thr Leu Asp Ile Ile Thr Arg Tyr Thr Arg Glu Ala
275 280 285
Gly Val Arg Ser Leu Asp Arg Lys Leu Gly Ala Ile Cys Arg Ala Val
290 295 300
Ala Val Lys Val Ala Glu Gly Gln His Lys Glu Ala Lys Leu Asp Arg
305 310 315 320
Ser Asp Val Thr Glu Arg Glu Gly Cys Arg Glu His Ile Leu Glu Asp
325 330 335
Glu Lys Pro Glu Ser Ile Ser Asp Thr Thr Asp Leu Ala Leu Pro Pro
340 345 350
Glu Met Pro Ile Leu Ile Asp Phe His Ala Leu Lys Asp Ile Leu Gly
355 360 365
Pro Pro Met Tyr Glu Met Glu Val Ser Gln Arg Leu Ser Gln Pro Gly

370 375 380
 Val Ala Ile Gly Leu Ala Trp Thr Pro Leu Gly Gly Glu Ile Met Phe
 385 390 395 400
 Val Glu Ala Ser Arg Met Asp Gly Glu Gly Gln Leu Thr Leu Thr Gly
 405 410 415
 Gln Leu Gly Asp Val Val Lys Glu Ser Ala His Leu Ala Ile Ser Trp
 420 425 430
 Leu Arg Ser Asn Ala Lys Lys Tyr Gln Leu Thr Asn Ala Phe Gly Ser
 435 440 445
 Phe Asp Leu Leu Asp Asn Thr Asp Ile His Leu His Phe Pro Ala Gly
 450 455 460
 Ala Val Thr Lys Asp Gly Pro Ser Ala Gly Val Thr Ile Val Thr Cys
 465 470 475 480
 Leu Ala Ser Leu Phe Ser Gly Arg Leu Val Arg Ser Asp Val Ala Met
 485 490 495
 Thr Gly Glu Ile Thr Leu Arg Gly Leu Val Leu Pro Val Gly Gly Ile
 500 505 510
 Lys Asp Lys Val Leu Ala Ala His Arg Ala Gly Leu Lys Gln Val Ile
 515 520 525
 Ile Pro Arg Arg Asn Glu Lys Asp Leu Glu Gly Ile Pro Gly Asn Val
 530 535 540
 Arg Gln Asp Leu Ser Phe Val Thr Ala Ser Cys Leu Asp Glu Val Leu
 545 550 555 560
 Asn Ala Ala Phe Asp Gly Gly Phe Thr Val Lys Thr Arg Pro Gly Leu
 565 570 575
 Leu Asn Ser Lys Leu
 580

<210> 2470

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2470

Met Cys Gly Cys Phe Ser Leu Ala Ile Glu Val Thr Arg Glu Gly Met

1 5 10 15

Tyr Lys Trp Glu Glu Asn Thr Ser Cys Tyr Phe Val Phe Ser His Leu

20 25 30

Glu Leu Asp Glu Arg His Pro Glu Gly Thr His Thr Arg Glu Glu Lys

35 40 45

Asp Leu Met Asp Ala Cys Asp Ser Val Ile Asp Leu Pro Ser Lys Lys

50 55 60

Leu Ile Glu Leu Tyr Thr Thr Cys Gly Phe Ser Ile Arg Lys Gln Gly

65 70 75 80

Ser Asp Ala His Leu Leu Glu Ala Gly Gly Ala Gly Leu Leu Asp Leu

85 90 95

Asn Thr Pro Pro Cys Cys Arg Ser Arg Ile Pro Gly Ser Val Leu Met

100 105 110

Phe Pro Val Arg Ala Gly Leu Trp Glu Gly Gln Leu Glu Pro Ala Ala

115 120 125

Cys Val Trp Ser Glu Met Arg Gly Arg Val Pro Gly Cys Lys Gly Gly

130 135 140

Gly Ile Gly Gly Met Gly Glu Cys Gly Cys Trp Gly Met Asp Arg Ser

145 150 155 160

Gly Gly Pro Leu

<210> 2471

<211> 729

<212> PRT

<213> Homo sapiens

<400> 2471

Met Ser Ile Leu Tyr His Cys Lys Lys Gly Phe Tyr Leu Leu Gly Ser

1 5 10 15

Ser Ala Leu Thr Cys Met Ala Asn Gly Leu Trp Asp Arg Ser Leu Pro

20 25 30

Lys Cys Leu Ala Ile Ser Cys Gly His Pro Gly Val Pro Ala Asn Ala

35 40 45

Val Leu Thr Gly Glu Leu Phe Thr Tyr Gly Ala Val Val His Tyr Ser

50 55 60

Cys Arg Gly Ser Glu Ser Leu Ile Gly Asn Asp Thr Arg Val Cys Gln

65 70 75 80

Glu Asp Ser His Trp Ser Gly Ala Leu Pro His Cys Thr Gly Asn Asn

85 90 95

Pro Gly Phe Cys Gly Asp Pro Gly Thr Pro Ala His Gly Ser Arg Leu

100 105 110

Gly Asp Asp Phe Lys Thr Lys Ser Leu Leu Arg Phe Ser Cys Glu Met

115 120 125

Gly His Gln Leu Arg Gly Ser Pro Glu Arg Thr Cys Leu Leu Asn Gly

130 135 140

Ser Trp Ser Gly Leu Gln Pro Val Cys Glu Ala Val Ser Cys Gly Asn

145 150 155 160

Pro Gly Thr Pro Thr Asn Gly Met Ile Val Ser Ser Asp Gly Ile Leu

165 170 175

Phe Ser Ser Ser Val Ile Tyr Ala Cys Trp Glu Gly Tyr Lys Thr Ser
180 185 190
Gly Leu Met Thr Arg His Cys Thr Ala Asn Gly Thr Trp Thr Gly Thr
195 200 205
Ala Pro Asp Cys Thr Ile Ile Ser Cys Gly Asp Pro Gly Thr Leu Ala
210 215 220
Asn Gly Ile Gln Phe Gly Thr Asp Phe Thr Phe Asn Lys Thr Val Ser
225 230 235 240
Tyr Gln Cys Asn Pro Gly Tyr Val Met Glu Ala Val Thr Ser Ala Thr
245 250 255
Ile Arg Cys Thr Lys Asp Gly Arg Trp Asn Pro Ser Lys Pro Val Cys
260 265 270
Lys Ala Val Leu Cys Pro Gln Pro Pro Pro Val Gln Asn Gly Thr Val
275 280 285
Glu Gly Ser Asp Phe Arg Trp Gly Ser Ser Ile Ser Tyr Ser Cys Met
290 295 300
Asp Gly Tyr Gln Leu Ser His Ser Ala Ile Leu Ser Cys Glu Gly Arg
305 310 315 320
Gly Val Trp Lys Gly Glu Ile Pro Gln Cys Leu Pro Val Phe Cys Gly
325 330 335
Asp Pro Gly Ile Pro Ala Glu Gly Arg Leu Ser Gly Lys Ser Phe Thr
340 345 350
Tyr Lys Ser Glu Val Phe Phe Gln Cys Lys Ser Pro Phe Ile Leu Val
355 360 365
Gly Ser Ser Arg Arg Val Cys Gln Ala Asp Gly Thr Trp Ser Gly Ile
370 375 380
Gln Pro Thr Cys Ile Asp Pro Ala His Asn Thr Cys Pro Asp Pro Gly
385 390 395 400
Thr Pro His Phe Gly Ile Gln Asn Ser Ser Arg Gly Tyr Glu Val Gly

405	410	415
Ser Thr Val Phe Phe Arg Cys Arg Lys Gly Tyr His Ile Gln Gly Ser		
420	425	430
Thr Thr Arg Thr Cys Leu Ala Asn Leu Thr Trp Ser Gly Ile Gln Thr		
435	440	445
Glu Cys Ile Pro His Ala Cys Arg Gln Pro Glu Thr Pro Ala His Ala		
450	455	460
Asp Val Arg Ala Ile Asp Leu Pro Thr Phe Gly Tyr Thr Leu Val Tyr		
465	470	475
Thr Cys His Pro Gly Phe Phe Leu Ala Gly Gly Ser Glu His Arg Thr		
485	490	495
Cys Lys Ala Asp Met Lys Trp Thr Gly Lys Ser Pro Val Cys Lys Ile		
500	505	510
Pro Ser Asp Val Phe Phe Val Asn Ser Leu Trp Lys Gly Tyr Tyr Glu		
515	520	525
Tyr Leu Gly Lys Arg Gln Pro Ala Thr Leu Thr Val Asp Trp Phe Asn		
530	535	540
Ala Thr Ser Ser Lys Val Asn Ala Thr Phe Ser Glu Ala Ser Pro Val		
545	550	555
Glu Leu Lys Leu Thr Gly Ile Tyr Lys Lys Glu Glu Ala His Leu Leu		
565	570	575
Leu Lys Ala Phe Gln Ile Lys Gly Gln Ala Asp Ile Phe Val Ser Lys		
580	585	590
Phe Glu Asn Asp Asn Trp Gly Leu Asp Gly Tyr Val Ser Ser Gly Leu		
595	600	605
Glu Arg Gly Gly Phe Thr Phe Gln Gly Asp Ile His Gly Lys Asp Phe		
610	615	620
Gly Lys Phe Lys Leu Glu Arg Gln Asp Pro Leu Asn Pro Asp Gln Asp		
625	630	635
		640

Ser Ser Ser His Tyr His Gly Thr Ser Ser Gly Ser Val Ala Ala Ala
 645 650 655
 Ile Leu Val Pro Phe Phe Ala Leu Ile Leu Ser Gly Phe Ala Phe Tyr
 660 665 670
 Leu Tyr Lys His Arg Thr Arg Pro Lys Val Gln Tyr Asn Gly Tyr Ala
 675 680 685
 Gly His Glu Asn Ser Asn Gly Gln Ala Ser Phe Glu Asn Pro Met Tyr
 690 695 700
 Asp Thr Asn Leu Lys Pro Thr Glu Ala Lys Ala Val Arg Phe Asp Thr
 705 710 715 720
 Thr Leu Asn Thr Val Cys Thr Val Val
 725

<210> 2472

<211> 266

<212> PRT

<213> Homo sapiens

<400> 2472

Met Lys Leu Pro Arg Ser Arg Glu Thr Thr Ser Pro Ser Pro Arg Thr
 1 5 10 15
 Leu Leu Ile Phe Gly Ala Cys Cys Ala Ala Asn Thr Arg Arg Arg Arg
 20 25 30
 Gln Arg Arg Arg Arg Pro Pro Arg Gly Pro Leu Ala Trp Arg Gly Phe
 35 40 45
 Ile Trp Ser Thr Ala Ser Ala Arg Leu Arg Thr Thr Thr Thr Thr
 50 55 60
 Thr Ile Thr Thr Thr Thr Thr Thr Thr Gly Pro Ser Arg Arg Ser Arg

65	70	75	80
Val Thr Thr Pro Leu Thr Thr Thr Gly Arg Ser Pro Ile Trp Ala Ala			
	85	90	95
Phe Pro Arg Ala Ala Ala Ala Thr Pro Ser Pro Ala Pro Thr Arg Thr			
	100	105	110
Thr Arg Pro Thr Thr Arg Ile Leu Ala Pro Val Cys Pro Ala Pro Ala			
	115	120	125
Ile Leu Cys Pro Gln Arg Lys Arg Arg Arg Arg Glu Arg Arg Arg Arg			
	130	135	140
Arg Lys Arg Arg Arg Arg Gly Ala Ala Gly Pro Arg Ile Pro Val Lys			
145	150	155	160
Ser Ala Arg Arg Arg Arg Thr Arg Pro Pro Ser Arg Thr Pro Ala Pro			
	165	170	175
Ala Pro Ala Lys Cys Gln Cys Arg Ala Ser Asp Ser Gly Ala Pro Ala			
	180	185	190
Ser Ala Ser Leu Pro Ala Cys Arg Arg Arg Pro Thr Ser Cys Thr Ile			
	195	200	205
Trp Pro Pro Pro Pro Leu Gln Pro Asn Pro Leu Leu Ser Arg Met Pro			
	210	215	220
Ala Asp Phe Pro Thr Ser Arg Val Val Ser Lys Arg Ser Arg Arg Arg			
225	230	235	240
Ser Gly Ile Cys Arg Ala Gly Pro Pro Lys His Leu Arg Cys Thr Ala			
	245	250	255
Arg Pro Ala Trp Gly Val Val Ser Leu Arg			
	260	265	

<210> 2473

<211> 174

<212> PRT

<213> Homo sapiens

<400> 2473

Met Leu Cys Pro Cys Leu Gly Thr Ala Ser Phe Pro Leu Pro Ile Trp
1 5 10 15
Leu Pro Ala Ala Pro Cys Val Pro Thr Pro Pro Ala Pro Val Phe Gly
20 25 30
Trp Pro Pro Leu Pro Ala Glu Pro Val Pro Leu Arg Ser Cys Gln Gln
35 40 45
Trp Gly Cys Ala Arg Pro Pro Pro Val Leu Gln Gly Ala Gly Phe Leu
50 55 60
Gln Arg Pro Ser Arg Val Ser Ser Ser Ser Ala Pro Cys Thr Arg Ser
65 70 75 80
Ala Asp Leu Thr Glu Ser Ala Pro Leu Leu Gln Leu Ala Leu Ala Ser
85 90 95
Cys Leu Pro Leu Ser Asp Pro Val Val Phe Cys Leu Leu Gly Leu Pro
100 105 110
Pro Gly Leu Ala Ala Val Ser Leu Pro Gln Leu Val Phe Trp Gly Ile
115 120 125
Ser Asn Leu Pro Glu Leu Pro Leu Pro Ile Trp Ser Pro Asp Leu Gly
130 135 140
Ser Thr Thr Pro Leu Gln Asn Ser Pro Pro Ser Thr Pro Pro Trp Gly
145 150 155 160
Leu Gln Ala Pro Ser Lys Glu Gln Gln Asp Ser Pro Ser Gln
165 170

<210> 2474

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2474

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Met Leu Pro Pro Gly Pro Leu Lys Cys Phe Phe Leu Phe Leu Phe Leu
  1             5             10             15
Phe Phe Phe Leu Arg Trp Ser Phe Ala Leu Ala Ala Gln Ala Gly Val
          20             25             30
Gln Trp His Asp Leu Gly Ser Pro Gln Pro Pro Pro Pro Gly Phe Lys
          35             40             45
Arg Phe Ser Cys Val Ser Leu Leu Ile Ser Trp Asp Cys Arg Gln Val
          50             55             60
Pro Pro Cys Pro Ala Asn Phe Val Phe Leu Val Glu Met Gly Phe Leu
          65             70             75             80
His Val Gly Gln Ala Gly Leu Glu Phe Leu Thr Ser Gly Asp Pro Pro
          85             90             95
Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Arg Ala
          100            105            110
Arg Pro Thr Lys Cys Leu Leu Ser His Asn Pro Asp Phe Leu Leu Glu
          115            120            125
Ser Pro
          130

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<210> 2475

<211> 603

<212> PRT

<213> Homo sapiens

<400> 2475

Met Arg Arg Lys Glu Lys Arg Leu Leu Gln Ala Val Ala Leu Val Leu
 1 5 10 15
 Ala Ala Leu Val Leu Leu Pro Asn Val Gly Leu Trp Ala Leu Tyr Arg
 20 25 30
 Glu Arg Gln Pro Asp Gly Thr Pro Gly Gly Ser Gly Ala Ala Val Ala
 35 40 45
 Pro Ala Ala Gly Gln Gly Ser His Ser Arg Gln Lys Lys Thr Phe Phe
 50 55 60
 Leu Gly Asp Gly Gln Lys Leu Lys Asp Trp His Asp Lys Glu Ala Ile
 65 70 75 80
 Arg Arg Asp Ala Gln Arg Val Gly Asn Gly Glu Gln Gly Arg Pro Tyr
 85 90 95
 Pro Met Thr Asp Ala Glu Arg Val Asp Gln Ala Tyr Arg Glu Asn Gly
 100 105 110
 Phe Asn Ile Tyr Val Ser Asp Lys Ile Ser Leu Asn Arg Ser Leu Pro
 115 120 125
 Asp Ile Arg His Pro Asn Cys Asn Ser Lys Arg Tyr Leu Glu Thr Leu
 130 135 140
 Pro Asn Thr Ser Ile Ile Ile Pro Phe His Asn Glu Gly Trp Ser Ser
 145 150 155 160
 Leu Leu Arg Thr Val His Ser Val Leu Asn Arg Ser Pro Pro Glu Leu
 165 170 175
 Val Ala Glu Ile Val Leu Val Asp Asp Phe Ser Asp Arg Glu His Leu
 180 185 190
 Lys Lys Pro Leu Glu Asp Tyr Met Ala Leu Phe Pro Ser Val Arg Ile
 195 200 205
 Leu Arg Thr Lys Lys Arg Glu Gly Leu Ile Arg Thr Arg Met Leu Gly

210	215	220
Ala Ser Val Ala Thr Gly Asp Val Ile Thr Phe Leu Asp Ser His Cys		
225	230	235
Glu Ala Asn Val Asn Trp Leu Pro Pro Leu Leu Asp Arg Ile Ala Arg		240
	245	250
Asn Arg Lys Thr Ile Val Cys Pro Met Ile Asp Val Ile Asp His Asp		255
	260	265
Asp Phe Arg Tyr Glu Thr Gln Ala Gly Asp Ala Met Arg Gly Ala Phe		270
	275	280
Asp Trp Glu Met Tyr Tyr Lys Arg Ile Pro Ile Pro Pro Glu Leu Gln		285
	290	295
Lys Ala Asp Pro Ser Asp Pro Phe Glu Ser Pro Val Met Ala Gly Gly		300
	305	310
Leu Phe Ala Val Asp Arg Lys Trp Phe Trp Glu Leu Gly Gly Tyr Asp		315
	325	330
Pro Gly Leu Glu Ile Trp Gly Gly Glu Gln Tyr Glu Ile Ser Phe Lys		335
	340	345
Val Trp Met Cys Gly Gly Arg Met Glu Asp Ile Pro Cys Ser Arg Val		350
	355	360
Gly His Ile Tyr Arg Lys Tyr Val Pro Tyr Lys Val Pro Ala Gly Val		365
	370	375
Ser Leu Ala Arg Asn Leu Lys Arg Val Ala Glu Val Trp Met Asp Glu		380
	385	390
Tyr Ala Glu Tyr Ile Tyr Gln Arg Arg Pro Glu Tyr Arg His Leu Ser		395
	405	410
Ala Gly Asp Val Ala Val Gln Lys Lys Leu Arg Ser Ser Leu Asn Cys		415
	420	425
Lys Ser Phe Lys Trp Phe Met Thr Lys Ile Ala Trp Asp Leu Pro Lys		430
	435	440
		445

Phe Tyr Pro Pro Val Glu Pro Pro Ala Ala Ala Trp Gly Glu Ile Arg

450

455

460

Asn Val Gly Thr Gly Leu Cys Ala Asp Thr Lys His Gly Ala Leu Gly

465

470

475

480

Ser Pro Leu Arg Leu Glu Gly Cys Val Arg Gly Arg Gly Glu Ala Ala

485

490

495

Trp Asn Asn Met Gln Val Phe Thr Phe Thr Trp Arg Glu Asp Ile Arg

500

505

510

Pro Gly Asp Pro Gln His Thr Lys Lys Phe Cys Phe Asp Ala Ile Ser

515

520

525

His Thr Ser Pro Val Thr Leu Tyr Asp Cys His Ser Met Lys Gly Asn

530

535

540

Gln Leu Trp Lys Tyr Arg Lys Asp Lys Thr Leu Tyr His Pro Val Ser

545

550

555

560

Gly Ser Cys Met Asp Cys Ser Glu Ser Asp His Arg Ile Phe Met Asn

565

570

575

Thr Cys Asn Pro Ser Ser Leu Thr Gln Gln Trp Leu Phe Glu His Thr

580

585

590

Asn Ser Thr Val Leu Glu Lys Phe Asn Arg Asn

595

600

<210> 2476

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2476

Met Ala Thr Gln Ala Lys Arg Pro Arg Val Ala Gly Pro Val Asp Gly

1 5 10 15
 Gly Asp Leu Asp Pro Val Ala Cys Phe Leu Ser Trp Cys Arg Arg Val
 20 25 30
 Gly Leu Glu Leu Ser Pro Lys Val Ser Glu Arg Ala Ala Gly Arg Ala
 35 40 45
 Pro Val Ala Ala His Leu Leu His Arg Arg Pro Ala Gly Ala Arg Ala
 50 55 60
 Ser Cys Ala Ala Glu Pro Val Gly Leu Gly Ala Thr Ala Ala Gly Ala
 65 70 75 80
 Ala Pro Arg Ala Ala Gly Pro Gly Leu Thr Leu Glu Ala Leu Leu Cys
 85 90 95
 Ala Leu Ala Arg Ala Gly Pro Leu Gly Ala Pro Asp Val Leu Val Arg
 100 105 110
 Ala Leu Gly Gly Val Gly Glu Arg Leu His Arg Ser Leu Leu Gln Glu
 115 120 125
 Gln Phe Pro Arg Pro Cys Thr Ser Pro Thr Gln
 130 135

<210> 2477

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2477

Met Arg Asp Ser Asn Thr Thr Arg Val Gly Asp Phe Ser Thr Pro Leu
 1 5 10 15
 Thr Ala Leu Asp Arg Ser Ser Arg Gln Lys Val Asn Lys Glu Thr Arg
 20 25 30

Asp Leu Asn Tyr Asn Leu Glu Gln Met Asp Leu Thr Asp Ile Tyr Arg
35 40 45
Thr Phe His Ala Thr Thr Thr Glu Tyr Thr Phe Tyr Ser Thr Val His
50 55 60
Gly Thr Phe Ser Lys Val Asp Leu Arg Ile Gly His Lys Met Ser Leu
65 70 75 80
Asn Lys Phe Lys Lys Ile Lys Ile Ile Ser Ser Thr Leu Ser Asp His
85 90 95
Ser Gly Ile Lys Leu Glu Ile Asn Ser Lys Arg Asn His Gln Asn His
100 105 110
Ala Asn Thr Trp Lys Leu Asn Asn Leu Leu Leu Asn Glu Tyr Trp Val
115 120 125
Lys Asn Glu Ile Lys Met Glu Ile Lys Lys Phe Phe Glu Leu Asn Asp
130 135 140
Asn Asn Asp Thr Thr Tyr Gln Thr Pro Gly Ile Lys Gln Arg Trp Cys
145 150 155 160

<210> 2478

<211> 186

<212> PRT

<213> Homo sapiens

<400> 2478

Met Ile Ala Leu Phe Asn Lys Leu Leu Asp Trp Phe Lys Ala Leu Phe
1 5 10 15
Trp Lys Glu Glu Met Glu Leu Thr Leu Val Gly Leu Gln Tyr Ser Gly
20 25 30
Lys Thr Thr Phe Val Asn Val Ile Ala Ser Gly Gln Phe Asn Glu Asp

35 40 45
Met Ile Pro Thr Val Gly Phe Asn Met Arg Lys Ile Thr Lys Gly Asn
50 55 60
Val Thr Ile Lys Leu Trp Asp Ile Gly Gly Gln Pro Arg Phe Arg Ser
65 70 75 80
Met Trp Glu Arg Tyr Cys Arg Gly Val Ser Ala Ile Val Tyr Met Val
85 90 95
Asp Ala Ala Asp Gln Glu Lys Ile Glu Ala Ser Lys Asn Glu Leu His
100 105 110
Asn Leu Leu Asp Lys Pro Gln Leu Gln Gly Ile Pro Val Leu Val Leu
115 120 125
Gly Asn Lys Arg Asp Leu Pro Gly Ala Leu Asp Glu Lys Glu Leu Ile
130 135 140
Glu Lys Met Asn Leu Ser Ala Ile Gln Asp Arg Glu Ile Cys Cys Tyr
145 150 155 160
Ser Ile Ser Cys Lys Glu Lys Asp Asn Ile Asp Ile Thr Leu Gln Trp
165 170 175
Leu Ile Gln His Ser Lys Ser Arg Arg Ser
180 185

<210> 2479

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2479

Met Ala Trp Glu Asn Arg Ile Thr Leu Asp Met Ile Leu Ala Asp Lys
1 5 10 15

Gly Glu Val Cys Val Met Ile Gly Thr Gln Tyr Ser Thr Phe Ile Pro
 20 25 30
 Asn Asn Thr Ala Ser Ser Gly Thr Ile Thr Lys Ala Leu Gln Cys Leu
 35 40 45
 Pro Val Leu Ser Asn Glu Leu Ala Lys Asn Ser Gly Ile Asn Asp Pro
 50 55 60
 Phe Thr Asn Leu Met Glu Lys Cys Phe Ser Arg Trp Glu Gly Leu Met
 65 70 75 80
 Ser Ser Ile Leu Thr Ser Phe Ala Val Ile Ile Gly Val Leu Ile Leu
 85 90 95
 Val Gly Tyr Tyr Ile Val Phe Cys Ala Gln Gly Leu Val Gln Arg Leu
 100 105 110
 Ile Glu Thr Ala Leu Thr Lys Thr Ser Pro Thr Ser Pro Ser Pro Tyr
 115 120 125
 Ser Tyr Ser
 130

<210> 2480

<211> 199

<212> PRT

<213> Homo sapiens

<400> 2480

Met Asn Pro Arg Lys Lys Val Asp Leu Lys Leu Ile Ile Val Gly Ala
 1 5 10 15
 Ile Gly Val Gly Lys Thr Ser Leu Pro His Gln Tyr Val His Lys Thr
 20 25 30
 Phe Tyr Glu Glu Tyr Gln Thr Thr Leu Gly Ala Ser Ile Leu Ser Lys

35 40 45
 Ile Ile Ile Leu Gly Asp Thr Thr Leu Lys Leu Gln Ile Trp Asp Thr
 50 55 60
 Gly Gly Gln Glu Arg Phe Arg Ser Met Val Ser Thr Phe Tyr Lys Gly
 65 70 75 80
 Ser Asp Gly Cys Ile Leu Ala Phe Asp Val Thr Asp Leu Glu Ser Phe
 85 90 95
 Glu Ala Leu Asp Ile Trp Arg Gly Asp Val Leu Ala Lys Ile Val Pro
 100 105 110
 Met Glu Gln Ser Tyr Pro Met Val Leu Leu Gly Asn Lys Ile Asp Leu
 115 120 125
 Ala Asp Arg Lys Val Pro Gln Glu Val Ala Gln Gly Trp Cys Arg Glu
 130 135 140
 Lys Asp Ile Pro Tyr Phe Glu Val Ser Ala Lys Asn Asp Ile Asn Val
 145 150 155 160
 Val Gln Ala Phe Glu Met Leu Ala Ser Arg Ala Leu Ser Arg Tyr Gln
 165 170 175
 Ser Ile Leu Glu Asn His Leu Thr Glu Ser Ile Lys Leu Ser Pro Asp
 180 185 190
 Gln Ser Arg Ser Arg Cys Cys
 195

<210> 2481

<211> 311

<212> PRT

<213> Homo sapiens

<400> 2481

Met Thr Phe Leu Ile Leu Ser Ile Ala Pro Val Leu Ala Val Thr Gly
 1 5 10 15
 Met Ile Glu Thr Ala Ala Met Thr Gly Phe Ala Asn Lys Asp Lys Gln
 20 25 30
 Glu Leu Lys His Ala Gly Lys Ile Ala Thr Glu Ala Leu Glu Asn Ile
 35 40 45
 Arg Thr Ile Val Ser Leu Thr Arg Glu Lys Ala Phe Glu Gln Met Tyr
 50 55 60
 Glu Glu Met Leu Gln Thr Gln His Arg Asn Thr Ser Lys Lys Ala Gln
 65 70 75 80
 Ile Ile Gly Ser Cys Tyr Ala Phe Ser His Ala Phe Ile Tyr Phe Ala
 85 90 95
 Tyr Ala Ala Gly Phe Arg Phe Gly Ala Tyr Leu Ile Gln Ala Gly Arg
 100 105 110
 Met Thr Pro Glu Gly Met Phe Ile Val Phe Thr Ala Ile Ala Tyr Gly
 115 120 125
 Ala Met Ala Ile Gly Lys Thr Leu Val Leu Ala Pro Glu Tyr Ser Lys
 130 135 140
 Ala Lys Ser Gly Ala Ala His Leu Phe Ala Leu Leu Glu Lys Lys Pro
 145 150 155 160
 Asn Ile Asp Ser Arg Ser Gln Glu Gly Lys Lys Pro Asp Thr Cys Glu
 165 170 175
 Gly Asn Leu Glu Phe Arg Glu Val Ser Phe Phe Tyr Pro Cys Arg Pro
 180 185 190
 Asp Val Phe Ile Leu Arg Gly Leu Ser Leu Ser Ile Glu Arg Gly Lys
 195 200 205
 Thr Val Ala Phe Val Gly Ser Ser Gly Cys Gly Lys Ser Thr Ser Val
 210 215 220
 Gln Leu Leu Gln Arg Leu Tyr Asp Pro Val Gln Gly Gln Val Leu Phe

225 230 235 240
Asp Gly Val Asp Ala Lys Glu Leu Asn Val Gln Trp Leu Arg Ser Gln
 245 250 255
Ile Ala Ile Val Pro Gln Glu Pro Val Leu Phe Asn Cys Ser Ile Ala
 260 265 270
Glu Asn Ile Ala Tyr Gly Asp Asn Ser Arg Val Val Pro Leu Asp Glu
 275 280 285
Ile Lys Glu Ala Ala Asn Ala Ala Asn Ile His Ser Phe Ile Glu Gly
 290 295 300
Leu Pro Glu Ser Leu Glu Cys
305 310

<210> 2482

<211> 322

<212> PRT

<213> Homo sapiens

<400> 2482

Met Ala Ser Ser Gln Gly Lys Asn Glu Leu Lys Leu Ala Asp Trp Met
1 5 10 15
Ala Thr Leu Pro Glu Ser Met His Ser Ile Pro Leu Thr Asn Leu Ala
 20 25 30
Ile Pro Gly Ser His Asp Ser Phe Ser Phe Tyr Ile Asp Glu Ala Ser
 35 40 45
Pro Val Gly Pro Glu Gln Pro Glu Thr Val Gln Asn Phe Val Ser Val
 50 55 60
Phe Gly Thr Val Ala Lys Lys Leu Met Arg Lys Trp Leu Ala Thr Gln
65 70 75 80

Thr Met Asn Phe Thr Gly Gln Leu Gly Ala Gly Ile Arg Tyr Phe Asp			
	85	90	95
Leu Arg Ile Ser Thr Lys Pro Arg Asp Pro Asp Asn Glu Leu Tyr Phe			
	100	105	110
Ala His Gly Leu Phe Ser Ala Lys Val Asn Glu Gly Leu Glu Glu Ile			
	115	120	125
Asn Ala Phe Leu Thr Asp His His Lys Glu Val Val Phe Leu Asp Phe			
	130	135	140
Asn His Phe Tyr Gly Met Gln Lys Tyr His His Glu Lys Leu Val Gln			
	145	150	155
Met Leu Lys Asp Ile Tyr Gly Asn Lys Met Cys Pro Ala Ile Phe Ala			
	165	170	175
Gln Glu Val Ser Leu Lys Tyr Leu Trp Glu Lys Asp Tyr Gln Val Leu			
	180	185	190
Val Phe Tyr His Ser Pro Val Ala Leu Glu Val Pro Phe Leu Trp Pro			
	195	200	205
Gly Gln Met Met Pro Ala Pro Trp Ala Asn Thr Thr Asp Pro Glu Lys			
	210	215	220
Leu Ile Gln Phe Leu Gln Ala Ser Ile Thr Glu Arg Arg Lys Lys Gly			
	225	230	235
Ser Phe Phe Ile Ser Gln Val Val Leu Thr Pro Lys Ala Ser Thr Val			
	245	250	255
Val Lys Gly Val Ala Ser Gly Leu Arg Glu Thr Ile Thr Glu Arg Ala			
	260	265	270
Leu Pro Ala Met Met Gln Trp Val Arg Thr Gln Lys Pro Gly Glu Ser			
	275	280	285
Gly Ile Asn Ile Val Thr Ala Asp Phe Val Glu Leu Gly Asp Phe Ile			
	290	295	300
Ser Thr Val Ile Lys Leu Asn Tyr Val Phe Asp Glu Gly Glu Ala Asn			

305 310 315 320
Thr Trp

<210> 2483

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2483

Met Gly Ala Gln Asp Asp Leu Arg Lys Val Thr Gln Ser Ala Tyr Ala
1 5 10 15
Gln Val Val Gln Phe Gly Val Ser Glu Lys Leu Gly Gln Val Ser Phe
20 25 30
Asp Phe Ser Arg His Gly Lys Thr Leu Val Glu Lys Leu Tyr Gly Glu
35 40 45
Ala Ser Ala Gln Leu Leu Asp Asp Glu Val Arg His Leu Val Ser Ala
50 55 60
Thr Tyr Arg Cys Ala Leu Asp Leu Leu Thr Arg Cys Arg Glu His Val
65 70 75 80
Glu Lys Val Gly Gln Arg Leu Leu Glu Lys Glu Val Leu Glu Lys Ala
85 90 95
Asp Met Val Glu Leu Leu Gly Pro Arg Pro Phe Ser Ala Lys Ser Thr
100 105 110
Tyr Glu Glu Phe Val Glu Gly Val Gly Ser Leu Glu Glu Asp Thr Ser
115 120 125
Leu Pro Glu Gly Leu Lys Gly Trp Asn Arg Gly Gln Glu Glu Glu Asp
130 135 140

Val Glu Ser Ser Leu Cys Arg Gly Leu Cys Val Ala Arg Gly Gly Arg
 145 150 155 160
 Leu His Leu Leu Leu Gly Gly Val Gly Val Thr Ala Thr Tyr Leu Gly
 165 170 175
 Pro Trp Gln Ser Ser Cys Gly Ile Ser Pro Lys Thr Asn
 180 185

<210> 2484

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2484

Met Thr Cys Leu Phe Ile Ile Leu Thr Val Tyr Phe Glu Glu Gln Lys
 1 5 10 15
 Phe Leu Ile Phe Leu Lys Leu Asn Phe Phe Leu Ser Phe Phe Leu Phe
 20 25 30
 Phe Glu Thr Glu Ser Cys Asn Val Thr Gln Ala Gly Val Gln Trp Arg
 35 40 45
 Asp Leu Val Ser Leu Gln Pro Pro Pro Pro Gly Ile Lys Arg Phe Ser
 50 55 60
 Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Pro Cys
 65 70 75 80
 Pro Ala Asn Phe Leu Tyr Phe Ser Arg Asp Gly Val Ser Leu Cys Cys
 85 90 95
 Pro Gly Trp Ser Gln Thr Pro Ala Leu Val Ile Arg Pro Arg Arg Pro
 100 105 110
 Pro Lys Val Leu Gly Leu Gln Val

115

120

<210> 2485

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2485

Met Trp Arg Glu Leu Arg Gly Cys Pro Gly Gly Asp Leu Glu Thr Ala

1

5

10

15

Gln Arg Leu Ser Gln Arg Arg Arg Gly Lys Ser Ser Glu Ala Val Pro

20

25

30

Glu Lys Thr Trp Arg Ala Gln Arg Met Ser Gln Arg Arg Arg Gly Glu

35

40

45

Ser Ser Glu Ala Val Pro Glu Lys Thr Trp Lys Glu Leu Arg Asn Ser

50

55

60

Glu Thr Val Pro Glu Lys Thr Trp Lys Gln Leu Arg Gly Cys Leu Gln

65

70

75

80

Glu Asp Val Gln Arg Val Gln Arg Leu Ser Arg Arg Arg His Gly Glu

85

90

95

Ser Ser Lys Ala Val His Lys Lys Met Trp Arg Glu Phe Arg Gly Cys

100

105

110

Arg Tyr Cys Cys Thr Trp Leu Phe Phe Phe Gly

115

120

<210> 2486

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2486

Met Ala Asn Asn Gly Cys Glu Val His Arg Phe Asp Pro Ser Val Lys

1 5 10 15

Ser Ala His Ile Leu Glu Ser Gln His Leu Trp Tyr His Arg Leu Ser

20 25 30

Ile Asp Trp Arg Asp Pro His Pro Ala Val Ala Ala Gln Lys Pro His

35 40 45

Ser Asn Thr Arg Lys Leu Gly Ser Ile Leu Asn Glu Phe Gly His His

50 55 60

Lys Ile Asp Val Leu Lys Ala Asp Leu Glu Ser Ala Glu Trp Lys Val

65 70 75 80

Leu Glu Asn Leu Ile Leu Glu Asp Val Leu Glu Gln Ile Gly Gln Leu

85 90 95

Ile Phe Glu Ile His Leu His Trp Pro Gly Phe Glu Val Ser Val Ser

100 105 110

Asp Ser Ser Val Val Arg Phe Trp Tyr Ser Leu Leu Lys Glu Leu Glu

115 120 125

Gln Lys Asp Phe Arg Leu Phe His Ser Tyr Lys Asp Leu Ser Lys Pro

130 135 140

Gln Leu Phe Leu Lys Lys Asp Ile Phe Asn Ala Ser Ser Cys Tyr Thr

145 150 155 160

Leu Ser Trp Val Asn Thr Arg Trp Lys

165

<210> 2487

<211> 194

<212> PRT

<213> Homo sapiens

<400> 2487

Met Gly Thr Trp Gly Gly Asp Gly Asn Lys Arg Gly Thr Gly Lys Cys

1 5 10 15

Pro Asn Thr Pro Val Val Pro Ile Pro Cys Arg Leu Pro Ala Phe Pro

20 25 30

Lys Pro Ser Pro Thr Tyr Leu Arg Thr Ser Ala Glu Gln Thr Leu Pro

35 40 45

Leu Leu Leu Pro His Leu His Gly Leu Cys Leu His Gln Pro Leu His

50 55 60

Leu Gly Phe Thr Ala Cys Leu Gly Ser Ala His Ile Leu Gly Gly Gln

65 70 75 80

Pro Ala Leu Pro Ala Val Pro Glu Pro Tyr Ala Gly His Cys Gln Arg

85 90 95

Pro Leu Ala Gly Thr Pro His His Ser Cys His Val Gly Pro Ala Asn

100 105 110

Arg Gly Glu Gly Ala Arg Pro Gly Trp Gly Gly Thr Arg Gln Pro Pro

115 120 125

Gly Ser Arg Ser Leu Pro Pro Ala Ala Arg Glu Gly Pro Gln Val Gln

130 135 140

Cys Ser Pro Pro Glu Phe Leu Pro Leu Pro Trp Ala Val Leu Ser Leu

145 150 155 160

Gln Ser Gly Leu Arg Pro Glu Gln Trp Ala Leu Ser Arg Trp Pro Cys

165 170 175

Pro Gly Asn Lys Glu Pro Leu Ala Trp Ala Leu His Ala Asn Lys Cys

180 185 190

Phe Phe

<210> 2488

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2488

Met Glu Ser His Ser Val Ala Gln Ala Gly Val Arg Trp Gln Asn Pro

1 5 10 15

Gly Glu Leu Gln His Pro Pro Pro Arg Phe Lys Arg Phe Ser Cys Leu

20 25 30

Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys Leu Pro Pro Arg Pro Ala

35 40 45

His Phe Cys Ile Phe Ser Arg Glu Gly Gly Phe Thr Met Leu Ala Arg

50 55 60

Leu Val Ser Asn Phe Leu Pro Gln Ala Ile His Leu Pro Trp Pro Pro

65 70 75 80

Lys Val Leu Gly Leu Gln Ala Gln Ser Thr Val Thr Ser Leu Leu Ser

85 90 95

Leu Phe Leu Ile Glu Asp Leu Glu Tyr His Leu Gln Ala Gly

100 105 110

<210> 2489

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2489

Met Trp Thr Ser Arg Thr Thr Thr Arg Arg Pro Pro Trp Gly Arg Phe
1 5 10 15
Ser Ser Val Ser Ser Ala Ser Val Ser Ser Thr Arg Lys Thr Trp Arg
20 25 30
Thr Arg Ser Thr Ser Cys Cys Arg Ser Ser Arg Arg Arg Val Ala Ala
35 40 45
Pro Phe Cys Thr Pro Ser Ala Ser Thr Glu Pro Ser Ala Arg Met Glu
50 55 60
Pro Pro Leu Glu Leu Pro Val Val His Thr Phe Ser Phe Leu Thr Phe
65 70 75 80
Val Phe Thr Tyr Arg Cys Ser Ala Gly Asp Gly Ser Ile Thr Gln Ile
85 90 95
Asn Cys Ala Tyr Glu Met Gly Glu Glu Met Pro Lys Arg Gln Met Lys
100 105 110
Ala Ile Lys Phe Leu Leu Phe His Phe Tyr Leu
115 120

<210> 2490

<211> 552

<212> PRT

<213> Homo sapiens

<400> 2490

Met Asn Ala Tyr Leu Thr Lys Gln His Ser Cys Ser Arg Gly Ser Asp
1 5 10 15

Gly Met Asp Ala Val Arg Ser Ala Pro Thr Leu Ile Arg Asp Ala His
 20 25 30
 Cys Ala Cys Gly Trp Gln Arg Asn Cys Gln Gly Leu Gly Tyr Ser Ser
 35 40 45
 Gln Thr Met Pro Ser Ser Gly Pro Gly Gly Pro Ala Ser Asn Arg Thr
 50 55 60
 Gly Gly Ser Ser Phe Asn Arg Thr Leu Trp Asp Ser Val Arg Lys Ser
 65 70 75 80
 Pro His Lys Thr Ser Thr Lys Gly Lys Gly Thr Cys Gly Glu His Cys
 85 90 95
 Thr Cys Pro His Gly Trp Phe Ser Pro Ala Gln Ala Ser Pro Ala Pro
 100 105 110
 Ile Ile Val Asn Thr Asp Thr Leu Asp Thr Ile Pro Tyr Val Asn Gly
 115 120 125
 Thr Glu Ile Glu Tyr Glu Phe Glu Glu Ile Thr Leu Glu Arg Gly Asn
 130 135 140
 Ser Gly Leu Gly Phe Ser Ile Ala Gly Gly Thr Asp Asn Pro His Ile
 145 150 155 160
 Gly Asp Asp Pro Gly Ile Phe Ile Thr Lys Ile Ile Pro Gly Gly Ala
 165 170 175
 Ala Ala Glu Asp Gly Arg Leu Arg Val Asn Asp Cys Ile Leu Arg Val
 180 185 190
 Asn Glu Val Asp Val Ser Glu Val Ser His Ser Lys Ala Val Glu Ala
 195 200 205
 Leu Lys Glu Ala Gly Ser Ile Val Arg Leu Tyr Val Arg Arg Arg Arg
 210 215 220
 Pro Ile Leu Glu Thr Val Val Glu Ile Lys Leu Phe Lys Gly Pro Lys
 225 230 235 240
 Gly Leu Gly Phe Ser Ile Ala Gly Gly Val Gly Asn Gln His Ile Pro

	245	250	255
Gly Asp Asn Ser Ile Tyr Val Thr Lys Ile Ile Asp Gly Gly Ala Ala			
	260	265	270
Gln Lys Asp Gly Arg Leu Gln Val Gly Asp Arg Leu Leu Met Val Asn			
	275	280	285
Asn Tyr Ser Leu Glu Glu Val Thr His Glu Glu Ala Val Ala Ile Leu			
	290	295	300
Lys Asn Thr Ser Glu Val Val Tyr Leu Lys Val Gly Lys Pro Thr Thr			
305	310	315	320
Ile Tyr Met Thr Asp Pro Tyr Gly Pro Pro Asp Ile Thr His Ser Tyr			
	325	330	335
Ser Pro Pro Met Glu Asn His Leu Leu Ser Gly Asn Asn Gly Thr Leu			
	340	345	350
Glu Tyr Lys Thr Ser Leu Pro Pro Ile Ser Pro Gly Arg Tyr Ser Pro			
	355	360	365
Ile Pro Lys His Met Leu Val Asp Asp Asp Tyr Thr Arg Pro Pro Glu			
	370	375	380
Pro Val Tyr Ser Thr Val Asn Lys Leu Cys Asp Lys Pro Ala Ser Pro			
385	390	395	400
Arg His Tyr Ser Pro Val Glu Cys Asp Lys Ser Phe Leu Leu Ser Ala			
	405	410	415
Pro Tyr Ser His Tyr His Leu Gly Leu Leu Pro Asp Ser Glu Met Thr			
	420	425	430
Ser His Ser Gln His Ser Thr Ala Thr Arg Gln Pro Ser Met Thr Leu			
	435	440	445
Gln Arg Ala Val Ser Leu Glu Gly Glu Pro Arg Lys Val Val Leu His			
	450	455	460
Lys Gly Ser Thr Gly Leu Gly Phe Asn Ile Val Gly Gly Glu Asp Gly			
465	470	475	480

Glu Gly Ile Phe Val Ser Phe Ile Leu Ala Gly Gly Pro Ala Asp Leu
 485 490 495
 Ser Gly Glu Leu Gln Arg Gly Asp Gln Ile Leu Ser Val Asn Gly Ile
 500 505 510
 Asp Leu Arg Gly Ala Ser His Glu Gln Ala Ala Ala Ala Leu Lys Gly
 515 520 525
 Ala Gly Gln Thr Val Thr Ile Ile Ala Gln Tyr Gln Pro Glu Gly Gln
 530 535 540
 Ser Glu Leu Lys Leu Ile Met Phe
 545 550

<210> 2491

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2491

Met Pro Tyr Thr Asp Val Val Ile His Glu Ile Gln Arg Leu Val Asp
 1 5 10 15
 Ile Val Pro Met Gly Val Pro His Asn Ile Ile Gln Asp Thr Gln Phe
 20 25 30
 Arg Gly Tyr Leu Leu Pro Lys Gly Thr Asp Val Phe Pro Leu Leu Gly
 35 40 45
 Ser Val Leu Lys Asp Pro Lys Tyr Phe Arg Tyr Pro Asp Ala Phe Tyr
 50 55 60
 Pro Gln His Phe Leu Asp Glu Gln Gly Arg Phe Lys Lys Asn Glu Ala
 65 70 75 80
 Phe Val Pro Phe Ser Ser Gly Lys Arg Ile Cys Leu Gly Glu Ala Met

85 90 95
Ala Arg Met Glu Leu Phe Leu Tyr Phe Thr Ser Thr Leu Gln Asn Phe
100 105 110
Ser Leu Cys Ser Leu Val Pro Leu Val Asp Ile Asp Ile Thr Pro Lys
115 120 125
Leu Ser Gly Phe Gly Asn Ile Thr Pro Thr Tyr Glu Leu Cys Leu Val
130 135 140
Ala Arg
145

<210> 2492

<211> 327

<212> PRT

<213> Homo sapiens

<400> 2492

Met Ala Leu Asp Ile Leu Ala Met Ala Pro Leu Tyr Gln Ala Pro Ala
1 5 10 15
Ile Asn Arg Ile Gly Pro Lys Thr Asp Pro Ser Lys Arg Pro Ala Asp
20 25 30
Pro Leu Lys Pro Leu Val Leu Ser Arg Thr Lys Leu Thr Thr Ile Glu
35 40 45
Ala Lys Arg Ile Met Ser Ile Leu Asp Glu Ala Ile Tyr Lys Val Glu
50 55 60
Leu Val Thr Leu Leu Ser Tyr Val Ala Ser Asn Arg Glu Asp Met Glu
65 70 75 80
Gly Met Leu Gly Glu Asp Val Met Arg Ala Val Arg Glu His Glu Asp
85 90 95

Leu Cys Gln Val Leu Leu Glu Asn Val Arg Cys Leu Lys Glu Lys Glu
100 105 110
Arg Gln Leu Gln Glu Gln Lys Glu Ala Glu Glu Glu Gly Trp Leu Arg
115 120 125
Asp Arg Leu Leu Ser Ile Glu Leu Gln Lys Ser Ser Leu Ser Pro Leu
130 135 140
Met Gln Gln Ile Lys Asp Ser Thr Lys Asn Val Leu Arg Leu Leu Leu
145 150 155 160
Ser Asn Pro Gln Ala Ala Arg Leu Leu Gln Met Gln Thr Gln Gly Arg
165 170 175
Ser Ala Glu Ala Gln Asn Phe Ile Asp Ser Leu Ile Glu Leu Arg Gly
180 185 190
Phe Leu Phe Glu Lys Leu Leu Thr Ser Pro Met Glu Ala Arg Asp Lys
195 200 205
Ala Gln Phe Leu Gln Asp Ile Ser Arg Gln Asn Ser Asn Asn Gln Gln
210 215 220
Ile Ile Asp Thr Leu Glu Lys Glu Leu Ala Glu Arg Met Lys Asn Arg
225 230 235 240
Asn Ala Glu Val Leu Phe His Ser Ile Ala Glu Ile Thr Glu Glu Ala
245 250 255
Thr Gln Ile Phe Cys Trp Leu Gly Phe Ser Ser Met Ile Asp Phe Phe
260 265 270
Phe Lys Met Glu Ser Arg Ser Val Val Gln Thr Arg Val Gln Trp Cys
275 280 285
Asn Leu Asp Ser Leu Gln Pro Leu Pro Pro Arg Phe Lys Arg Phe Ser
290 295 300
His His Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Met Pro Pro Arg
305 310 315 320
Pro Ala Asn Phe Leu Tyr Phe

325

<210> 2493

<211> 206

<212> PRT

<213> Homo sapiens

<400> 2493

Met Leu Tyr Ser Cys Phe His Ser Val Leu Phe Phe Ile Ser Phe Glu
 1 5 10 15
 Ala Ser His Leu Thr Arg Gly Leu Leu Arg Ser Val Leu Phe Asn Phe
 20 25 30
 Gln Ala Leu Thr Val Phe Leu Leu Ser Phe Ser Asp Trp Phe Leu Val
 35 40 45
 Leu Met Ser Thr Gly Val Ala Ser Thr Ser Ser Arg His Pro Thr Asp
 50 55 60
 Glu Gln His Ser His Asn Phe Pro Val Ser Arg Ser Ser Ile Val Ser
 65 70 75 80
 Ile Ser Cys Val Ser Ser His Phe Thr Ala Leu Phe Gln Leu Ser Leu
 85 90 95
 Phe Glu Pro Gly Phe Arg Ala Ser Phe Ile Pro Ser Leu Ala Ser Ser
 100 105 110
 Pro Arg Val Ser Gln Phe Met Glu Phe Leu Leu Asp Pro Gln Gln Gln
 115 120 125
 Gly Val Leu Phe Leu Thr Gly Ile Pro His Thr Ser Pro Leu Ala Ser
 130 135 140
 Glu Pro His His Ile Leu Arg Leu Val Val Cys Gly Glu Ser Gly Val
 145 150 155 160

115

120

<210> 2495

<211> 204

<212> PRT

<213> Homo sapiens

<400> 2495

Met Ile Thr Ile Ser Asn Arg Asp Pro Lys Pro Ser His Gln Gly Thr
 1 5 10 15
 Ser Arg Val Thr Ile Thr Leu Thr Leu Asn Leu Gly Leu Leu His Phe
 20 25 30
 Ser Ala Gly Cys Val Asn Val Arg Asp Pro Gln Leu Gln Ala Ala Val
 35 40 45
 Ser Trp Arg Asn Trp Thr Thr Ala Thr Gly Trp Gly Ser Ala Val Gly
 50 55 60
 Asp Gly Thr Gly Arg Gly Arg Arg Pro Leu Pro Arg Pro Leu Ser Arg
 65 70 75 80
 Arg Trp Phe Gly Thr Gly Ile Leu His Arg Ala Ser Leu Leu Gly Ala
 85 90 95
 Ala Arg Leu Pro Glu Ser Arg Arg Leu Leu Pro Ala Val Pro Ala Pro
 100 105 110
 Ala Glu Gly Cys Trp Trp Trp Cys Trp Gly Arg Ser Ala Leu Asn Pro
 115 120 125
 Cys Asp Arg Lys Gly Arg Tyr Gln Lys Arg Phe Ile Ala Phe Ser Trp
 130 135 140
 Ser Gly Gln Pro Gly Pro Phe Glu Gly Gly Thr Ala Ala Thr Pro Thr
 145 150 155 160

Pro Arg Phe Phe Ala Cys Leu Leu Thr Ala Gly Val Ser Cys Phe Val
 165 170 175
 Ser Leu Phe His Tyr Phe Leu Phe Phe Ala Leu Lys Lys Lys Val Leu
 180 185 190
 Pro Cys Ser Ser Cys Pro Phe Ile Leu Ile Tyr Tyr
 195 200

<210> 2496

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2496

Met Phe Arg Leu Leu Asp Glu Asn Lys Asp Ser Leu Ile Asn Phe Lys
 1 5 10 15
 Glu Phe Val Thr Gly Met Ser Gly Met Tyr His Gly Asp Leu Thr Glu
 20 25 30
 Lys Leu Lys Val Leu Tyr Lys Leu His Leu Pro Pro Gly Glu Ser Leu
 35 40 45
 Leu Pro Thr Pro Gln Pro Gly Ser Pro Thr Cys Pro Glu Val Gln Leu
 50 55 60
 Gln Arg Thr Gly Leu Cys Glu Thr Val Gly Pro Arg Gly Gly Thr Ala
 65 70 75 80
 Ala Ser Gln Ala Gly Gly Ser His Trp Arg Arg Gly Ser Gly Ser Leu
 85 90 95
 Ser Thr Ser Gln Arg Ser Glu Ser Arg Ala Leu Ala Trp Glu Gly Thr
 100 105 110
 Trp Arg Arg Ile Pro Trp Val Thr Gly His Cys Trp Val Gln Asn Ser

115 120 125
His Arg Gly Gly Ser Trp Thr Gln Asn Pro Leu Gly Gly Pro
130 135 140

<210> 2497

<211> 177

<212> PRT

<213> Homo sapiens

<400> 2497

Met Arg Thr Trp Gln Gln Pro Thr Phe Pro Pro Val Thr Thr Arg Leu
1 5 10 15
Cys Pro Gly Arg Gly Arg Leu Ser Thr Ala Cys Pro Gly Ala Pro Ser
20 25 30
Gly Gly Gln Ala Gln Tyr Glu Pro Ile Arg Gly Thr Leu Pro Ala Trp
35 40 45
Glu Asp Ser Val Ala Ser Gly Gly Ser Ser Arg Glu Ala Leu Asp Gln
50 55 60
Ala Ala Glu Asp Ala Asn Leu Pro Gln Ala Gly Leu Ala Ala His Gly
65 70 75 80
His Gly Gly Ser Trp Pro Arg Val Ser Pro Pro Gly Thr Gln Ala Cys
85 90 95
Ser Arg Pro Ser Gly Met Gln Ala Leu Gly Leu Trp Gly Ala Ala Trp
100 105 110
Arg Leu Ala Ser Cys Tyr Lys Lys Leu Trp Arg Arg Leu Leu Ser Val
115 120 125
Ala Ala Gly Trp Leu Trp Leu Trp Lys Gly Ser Pro Gln Gly Pro Trp
130 135 140

Ser Ala Thr Cys Gly Pro His Cys Arg Ala Val Val Ser Pro His Trp
 145 150 155 160
 Leu Pro Cys His Asp Ala Ala Glu Val Ser Ala Ala Pro Ala Arg Leu
 165 170 175
 Pro

<210> 2498

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2498

Met Val Gly Val Val Ser Asp Asp Gln Asp Phe Leu Asp Ser Lys Asp
 1 5 10 15
 Thr Met Lys Met Ala Val Val Leu Val Thr Pro Leu Gly Asn Gly Asp
 20 25 30
 Leu Ala Leu Lys Phe Gly Tyr Pro Thr Pro His Gly Gly Cys Gln Lys
 35 40 45
 Met Asp Thr Thr Phe Thr Glu Gly Ala Val Pro Gly Gln Phe Ser Asn
 50 55 60
 Pro Ala Met Thr Leu Ser Asp Ile Arg Val Ala Phe Ser Asp Tyr Gln
 65 70 75 80
 His Phe Ala Leu Leu Tyr Leu Glu Met Arg Lys Gly Gly Leu Arg Asn
 85 90 95
 Gln Trp Leu Gln Leu Tyr Gly Gly Arg Ala Ala Gly Arg Arg Pro Arg
 100 105 110
 His Pro Arg Phe Gly Ser Gly Met Ser Pro Leu Cys Leu His Gln Pro

115	120	125
Phe Leu His Ala Glu Gly Gly Thr Ala Gly Ser Trp Cys Leu Trp Pro		
130	135	140
Arg Val Pro Ala Pro Pro Cys Pro Ser Leu Pro Leu Phe Ala Pro Pro		
145	150	155
Ala Pro Ser Leu		160

<210> 2499

<211> 447

<212> PRT

<213> Homo sapiens

<400> 2499

Met Ala Gly Thr Arg Trp Val Leu Gly Ala Leu Leu Arg Gly Cys Gly		
1	5	10
Cys Asn Cys Ser Ser Cys Arg Arg Thr Gly Ala Ala Cys Leu Pro Phe		
20	25	30
Tyr Ser Ala Ala Gly Ser Ile Pro Ser Gly Val Ser Gly Arg Arg Arg		
35	40	45
Leu Leu Leu Leu Leu Gly Ala Ala Ala Ala Ala Ser Tyr Pro Ala Leu		
50	55	60
Arg Ala Ser Leu Leu Pro Gln Ser Leu Ala Ala Ala Ala Val Pro		
65	70	75
Thr Arg Ser Tyr Ser Gln Glu Ser Lys Thr Thr Tyr Leu Glu Asp Leu		
85	90	95
Pro Pro Pro Pro Glu Tyr Glu Leu Ala Pro Ser Lys Leu Glu Glu Glu		
100	105	110

Val Asp Asp Val Phe Leu Ile Arg Ala Gln Gly Leu Pro Trp Ser Cys
115 120 125

Thr Met Glu Asp Val Leu Asn Phe Phe Ser Asp Cys Arg Ile Arg Asn
130 135 140

Gly Glu Asn Gly Ile His Phe Leu Leu Asn Arg Asp Gly Lys Arg Arg
145 150 155 160

Gly Asp Ala Leu Ile Glu Met Glu Ser Glu Gln Asp Val Gln Lys Ala
165 170 175

Leu Glu Lys His Arg Met Tyr Met Gly Gln Arg Tyr Val Glu Val Tyr
180 185 190

Glu Ile Asn Asn Glu Asp Val Asp Ala Leu Met Lys Ser Leu Gln Val
195 200 205

Lys Ser Ser Pro Val Val Asn Asp Gly Val Val Arg Leu Arg Gly Leu
210 215 220

Pro Tyr Ser Cys Asn Glu Glu Asp Ile Val Asp Phe Phe Ala Gly Leu
225 230 235 240

Asn Ile Val Asp Ile Thr Phe Val Met Asp Tyr Arg Gly Arg Arg Lys
245 250 255

Thr Gly Glu Ala Tyr Val Gln Phe Glu Glu Pro Glu Met Ala Asn Gln
260 265 270

Ala Leu Leu Lys His Arg Glu Glu Ile Gly Asn Arg Tyr Ile Glu Ile
275 280 285

Phe Pro Ser Arg Arg Asn Glu Val Arg Thr His Val Gly Ser Tyr Lys
290 295 300

Gly Lys Lys Ile Ala Ser Phe Pro Thr Ala Lys Tyr Ile Thr Glu Pro
305 310 315 320

Glu Met Val Phe Glu Glu His Glu Val Asn Glu Asp Ile Gln Pro Met
325 330 335

Thr Ala Phe Glu Ser Glu Lys Glu Ile Glu Leu Pro Lys Glu Val Pro

340	345	350	
Glu Lys Leu Pro Glu Ala Ala Asp Phe Gly Thr Thr Ser Ser Leu His			
355	360	365	
Phe Val His Met Arg Gly Leu Pro Phe Gln Ala Asn Ala Gln Asp Ile			
370	375	380	
Ile Asn Phe Phe Ala Pro Leu Lys Pro Val Arg Ile Thr Met Glu Tyr			
385	390	395	400
Ser Ser Ser Gly Lys Ala Thr Gly Glu Ala Asp Val His Phe Glu Thr			
405	410	415	
His Glu Asp Ala Val Ala Ala Met Leu Lys Asp Arg Ser His Val His			
420	425	430	
His Arg Tyr Ile Glu Leu Phe Leu Asn Ser Cys Pro Lys Gly Lys			
435	440	445	

<210> 2500

<211> 206

<212> PRT

<213> Homo sapiens

<400> 2500

Met Thr Leu Trp Gln Ser His Ser Pro Phe Gln Val Tyr Asn Val Asp
1 5 10 15
Ser Lys Thr Tyr Asn Ala Ser Val Leu Pro Val Arg Val Glu Val Asp
20 25 30
Met Val Arg Val Met Glu Val Phe Leu Ala Gln Leu Arg Leu Leu Phe
35 40 45
Gly Ile Ala Gln Pro Gln Leu Pro Pro Lys Cys Leu Leu Ser Gly Pro
50 55 60

Thr Ser Glu Gly Leu Met Thr Trp Glu Leu Asp Pro Leu Leu Trp Ala
 65 70 75 80
 Arg Ser Val Glu Asn Leu Ala Thr Ala Thr Thr Thr Leu Thr Ser Leu
 85 90 95
 Ala Gln Leu Leu Gly Lys Ile Ser Asn Ile Val Ile Lys Asp Asp Val
 100 105 110
 Ala Ser Glu Val Tyr Lys Ala Val Ala Ala Val Gln Lys Ser Ala Glu
 115 120 125
 Glu Leu Ala Ser Gly His Leu Ala Ser Ala Phe Val Ala Ser Gln Glu
 130 135 140
 Ala Val Thr Ser Ser Glu Leu Ala Phe Phe Asp Pro Ser Leu Leu His
 145 150 155 160
 Leu Leu Tyr Phe Pro Asp Asp Gln Lys Phe Ala Ile Tyr Ile Pro Leu
 165 170 175
 Phe Leu Pro Met Ala Val Pro Ile Leu Leu Ser Leu Val Lys Ile Phe
 180 185 190
 Leu Glu Thr Arg Lys Ser Trp Arg Lys Pro Glu Lys Thr Asp
 195 200 205

<210> 2501

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2501

Met Leu Glu Glu Asn Gly Glu Cys Val Leu Met Glu Gly Lys Leu Thr
 1 5 10 15
 His Lys Ile Asn Thr Glu Ser Ser Leu Trp Ser Leu Glu Pro Gly Lys

20	25	30
Cys Val Leu Val Asn Leu Ser Lys Val Gly Glu Tyr Trp Trp Asn Ala		
35	40	45
Ile Leu Glu Gly Glu Glu Pro Ile Asp Ile Asp Lys Ile Asn Lys Glu		
50	55	60
Arg Ser Met Ala Thr Val Asp Glu Glu Glu Gln Ala Val Leu Asp Arg		
65	70	75
80		
Leu Thr Phe Asp Tyr His Gln Lys Leu Gln Gly Lys Pro Gln Ser His		
85	90	95
Glu Leu Lys Val His Glu Met Leu Lys Lys Gly Trp Asp Ala Glu Gly		
100	105	110
Ser Pro Phe Arg Gly Gln Arg Phe Asp Pro Ala Met Phe Asn Ile Ser		
115	120	125
Pro Gly Ala Val Gln Phe		
130		

<210> 2502

<211> 195

<212> PRT

<213> Homo sapiens

<400> 2502

Met Gln Arg Asn Ala Ser Val Pro Asn Leu Arg Gly Ser Glu Glu Arg		
1	5	10
15		
Leu Leu Ala Leu Lys Lys Pro Ala Leu Pro Ala Leu Ser Arg Thr Thr		
20	25	30
Glu Leu Gln Asp Glu Leu Ser His Leu Arg Ser Gln Ile Ala Lys Ile		
35	40	45

Val Ala Ala Asp Ala Ala Ser Ala Ser Leu Thr Pro Asp Phe Leu Ser
 50 55 60
 Pro Gly Ser Ser Asn Val Ser Ser Pro Leu Pro Cys Phe Gly Ser Ser
 65 70 75 80
 Phe His Ser Thr Thr Ser Phe Val Ile Ser Asp Ile Thr Glu Glu Thr
 85 90 95
 Glu Val Glu Val Pro Glu Leu Pro Ser Val Pro Leu Leu Cys Ser Ala
 100 105 110
 Ser Pro Glu Cys Cys Lys Pro Glu His Lys Ala Ala Cys Ser Ser Ser
 115 120 125
 Glu Glu Asp Asp Cys Val Ser Leu Ser Lys Ala Ser Ser Phe Ala Asp
 130 135 140
 Met Met Gly Ile Leu Lys Asp Phe His Arg Met Lys Gln Ser Gln Asp
 145 150 155 160
 Leu Asn Arg Ser Leu Leu Lys Glu Glu Asp Pro Ala Val Leu Ile Ser
 165 170 175
 Glu Val Leu Arg Arg Lys Phe Ala Leu Lys Glu Glu Asp Ile Ser Arg
 180 185 190
 Lys Gly Asn
 195

<210> 2503

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2503

Met Gln Phe Arg Pro Phe Cys Lys Ala Ser Pro Ser Val Leu Ile Phe

1	5	10	15
Val	Lys	Ala	Leu
Phe	Phe	Leu	Pro
Gly	Ile	Val	Arg
Ser	Cys	Ser	Leu
20	25	30	
Gly	Val	Pro	Ile
Ala	Leu	Lys	His
Cys	Val	Leu	Phe
Pro	Leu	Phe	Phe
35	40	45	
Glu	Met	Glu	Phe
Pro	Ser	Val	Thr
Gln	Ala	Gly	Val
Gln	Trp	His	Asp
50	55	60	
Leu	Gly	Ser	Leu
Arg	Pro	Leu	Pro
Leu	Gly	Phe	Glu
Arg	Phe	Ser	Phe
65	70	75	80
Leu	Ser	Leu	Pro
Ser	Ser	Trp	Asp
Cys	Arg	His	Val
Pro	Pro	Cys	Pro
85	90	95	
Ala	Asp	Phe	Cys
Val	Phe	Ser	Arg
Asp	Glu	Val	Ser
Ser	Ser	Cys	Trp
Ser			
100	105	110	
Gly	Trp	Ser	Gln
Thr	Ser	Asp	Leu
Arg			
115	120		

<210> 2504

<211> 421

<212> PRT

<213> Homo sapiens

<400> 2504

Met	Ala	Glu	Leu	Arg	Glu	Ala	Leu	Val	Ser	Val	Trp	Leu	Gln	Cys	Thr
1	5	10	15												
Ala	Ile	Ser	Arg	Ile	Tyr	Thr	Val	Gly	Arg	Ser	Phe	Glu	Gly	Arg	Glu
20	25	30													
Leu	Leu	Val	Ile	Glu	Leu	Ser	Asp	Asn	Pro	Gly	Val	His	Glu	Pro	Gly
35	40	45													

Glu Pro Glu Phe Lys Tyr Ile Gly Asn Met His Gly Asn Glu Ala Val
 50 55 60
 Gly Arg Glu Leu Leu Ile Phe Leu Ala Gln Tyr Leu Cys Asn Glu Tyr
 65 70 75 80
 Gln Lys Gly Asn Glu Thr Ile Val Asn Leu Ile His Ser Thr Arg Ile
 85 90 95
 His Ile Met Pro Ser Leu Asn Pro Asp Gly Phe Glu Lys Ala Ala Ser
 100 105 110
 Gln Pro Gly Glu Leu Lys Asp Trp Phe Val Gly Arg Ser Asn Ala Gln
 115 120 125
 Gly Ile Asp Leu Asn Arg Asn Phe Pro Asp Leu Asp Arg Ile Val Tyr
 130 135 140
 Val Asn Glu Lys Glu Gly Gly Pro Asn Asn His Leu Leu Lys Asn Met
 145 150 155 160
 Lys Lys Ile Val Asp Gln Asn Thr Lys Leu Ala Pro Glu Thr Lys Ala
 165 170 175
 Val Ile His Trp Ile Met Asp Ile Pro Phe Val Leu Ser Ala Asn Leu
 180 185 190
 His Gly Gly Asp Leu Val Ala Asn Tyr Pro Tyr Asp Glu Thr Arg Ser
 195 200 205
 Gly Ser Ala His Glu Tyr Ser Ser Ser Pro Asp Asp Ala Ile Phe Gln
 210 215 220
 Ser Leu Ala Arg Ala Tyr Ser Ser Phe Asn Pro Ala Met Ser Asp Pro
 225 230 235 240
 Asn Arg Pro Pro Cys Arg Lys Asn Asp Asp Asp Ser Ser Phe Val Asp
 245 250 255
 Gly Thr Thr Asn Gly Gly Ala Trp Tyr Ser Val Pro Gly Gly Met Gln
 260 265 270
 Asp Phe Asn Tyr Leu Ser Ser Asn Cys Phe Glu Ile Thr Val Glu Leu

15

Leu Gln Ala Ala Glu Lys Phe Val Asp Glu Leu Cys Ile Ser Tyr Ser
 20 25 30
 Ala Lys Lys Gly Arg Gly Tyr Ala Arg Lys Arg Gln Lys Asn Leu Leu
 35 40 45
 Ala Thr Leu Gln Ala Tyr Lys Pro Gln Asn Pro Lys Asp Ala Pro Val
 50 55 60
 Asn Cys Asp Lys Cys Gly Lys Pro Gly Asn Val Lys Asn Asp Cys Pro
 65 70 75 80
 Gly Ser Met Arg Lys Pro Ala Arg Pro Cys Pro Ile Cys Gly Gly Asp
 85 90 95
 His Trp Arg Val Asp Cys Pro Gln Arg Cys Arg Ser Leu Gly Pro Lys
 100 105 110
 Pro Val Ser Gln Val Ser Asn Arg Ile Asp Gly Pro Gln Gly Ser Cys
 115 120 125
 Pro Trp Leu
 130

<210> 2506

<211> 271

<212> PRT

<213> Homo sapiens

<400> 2506

Met Ile Ser Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Asp Ser
 1 5 10 15
 Pro Ala Ser Ala Ser Gln Val Ala Gly Ile Thr Gly Arg Leu Pro Thr
 20 25 30
 Leu Gln Thr Val Arg Tyr Gly Ser Lys Ala Val Thr Arg His Arg Arg

35	40	45	
Val Met His Phe Gln Arg Gln Lys Leu Met Ala Val Thr Glu Tyr Ile			
50	55	60	
Pro Pro Lys Pro Ala Ile His Pro Ser Cys Leu Pro Ser Pro Pro Ser			
65	70	75	80
Pro Pro Gln Glu Glu Ile Gly Leu Ile Arg Leu Leu Arg Arg Glu Ile			
85	90	95	
Ala Ala Val Phe Gln Asp Asn Arg Met Ile Ala Val Cys Gln Asn Val			
100	105	110	
Ala Leu Ser Ala Glu Asp Lys Leu Leu Met Arg His Gln Leu Arg Lys			
115	120	125	
His Lys Ile Leu Met Lys Val Phe Pro Asn Gln Val Leu Lys Pro Phe			
130	135	140	
Leu Glu Asp Ser Lys Tyr Gln Asn Leu Leu Pro Leu Phe Val Gly His			
145	150	155	160
Asn Met Leu Leu Val Ser Glu Glu Pro Lys Val Lys Glu Met Val Arg			
165	170	175	
Ile Leu Arg Thr Val Pro Phe Leu Pro Leu Leu Gly Gly Cys Ile Asp			
180	185	190	
Asp Thr Ile Leu Ser Arg Gln Gly Phe Ile Asn Tyr Ser Lys Leu Pro			
195	200	205	
Ser Leu Pro Leu Val Gln Gly Glu Leu Val Gly Gly Leu Thr Cys Leu			
210	215	220	
Thr Ala Gln Thr His Ser Leu Leu Gln His Gln Pro Leu Gln Leu Thr			
225	230	235	240
Thr Leu Leu Asp Gln Tyr Ile Arg Glu Gln Arg Glu Lys Asp Ser Val			
245	250	255	
Met Ser Ala Asn Gly Lys Pro Asp Pro Asp Thr Val Pro Asp Ser			
260	265	270	

<210> 2507

<211> 1009

<212> PRT

<213> Homo sapiens

<400> 2507

Met Glu Ala Leu Thr Leu Trp Leu Leu Pro Trp Ile Cys Gln Cys Val

1 5 10 15

Ser Val Arg Ala Asp Ser Ile Ile His Ile Gly Ala Ile Phe Glu Glu

20 25 30

Asn Ala Ala Lys Asp Asp Arg Val Phe Gln Leu Ala Val Ser Asp Leu

35 40 45

Ser Leu Asn Asp Asp Ile Leu Gln Ser Glu Lys Ile Thr Tyr Ser Ile

50 55 60

Lys Val Ile Glu Ala Asn Asn Pro Phe Gln Ala Val Gln Glu Ala Cys

65 70 75 80

Asp Leu Met Thr Gln Gly Ile Leu Ala Leu Val Thr Ser Thr Gly Cys

85 90 95

Ala Ser Ala Asn Ala Leu Gln Ser Leu Thr Asp Ala Met His Ile Pro

100 105 110

His Leu Phe Val Gln Arg Asn Pro Gly Gly Ser Pro Arg Thr Ala Cys

115 120 125

His Leu Asn Pro Ser Pro Asp Gly Glu Ala Tyr Thr Leu Ala Ser Arg

130 135 140

Pro Pro Val Arg Leu Asn Asp Val Met Leu Arg Leu Val Thr Glu Leu

145 150 155 160

Arg Trp Gln Lys Phe Val Met Phe Tyr Asp Ser Glu Tyr Asp Ile Arg

165	170	175
Gly Leu Gln Ser Phe Leu Asp Gln Ala Ser Arg Leu Gly Leu Asp Val		
180	185	190
Ser Leu Gln Lys Val Asp Lys Asn Ile Ser His Val Phe Thr Ser Leu		
195	200	205
Phe Thr Thr Met Lys Thr Glu Glu Leu Asn Arg Tyr Arg Asp Thr Leu		
210	215	220
Arg Arg Ala Ile Leu Leu Leu Ser Pro Gln Gly Ala His Ser Phe Ile		
225	230	235
240		
Asn Glu Ala Val Glu Thr Asn Leu Ala Ser Lys Asp Ser His Trp Val		
245	250	255
Phe Val Asn Glu Glu Ile Ser Asp Pro Glu Ile Leu Asp Leu Val His		
260	265	270
Ser Ala Leu Gly Arg Met Thr Val Val Arg Gln Ile Phe Pro Ser Ala		
275	280	285
Lys Asp Asn Gln Lys Cys Thr Arg Asn Asn His Arg Ile Ser Ser Leu		
290	295	300
Leu Cys Asp Pro Gln Glu Gly Tyr Leu Gln Met Leu Gln Ile Ser Asn		
305	310	315
320		
Leu Tyr Leu Tyr Asp Ser Val Leu Met Leu Ala Asn Ala Phe His Arg		
325	330	335
Lys Leu Glu Asp Arg Lys Trp His Ser Met Ala Ser Leu Asn Cys Ile		
340	345	350
Arg Lys Ser Thr Lys Pro Trp Asn Gly Gly Arg Ser Met Leu Asp Thr		
355	360	365
Ile Lys Lys Gly His Ile Thr Gly Leu Thr Gly Val Met Glu Phe Arg		
370	375	380
Glu Asp Ser Ser Asn Pro Tyr Val Gln Phe Glu Ile Leu Gly Thr Thr		
385	390	395
400		

Tyr Ser Glu Thr Phe Gly Lys Asp Met Arg Lys Leu Ala Thr Trp Asp
 405 410 415
 Ser Glu Lys Gly Leu Asn Gly Ser Leu Gln Glu Arg Pro Met Gly Ser
 420 425 430
 Arg Leu Gln Gly Leu Thr Leu Lys Val Val Thr Val Leu Glu Glu Pro
 435 440 445
 Phe Val Met Val Ala Glu Asn Ile Leu Gly Gln Pro Lys Arg Tyr Lys
 450 455 460
 Gly Phe Ser Ile Asp Val Leu Asp Ala Leu Ala Lys Ala Leu Gly Phe
 465 470 475 480
 Lys Tyr Glu Ile Tyr Gln Ala Pro Asp Gly Arg Tyr Gly His Gln Leu
 485 490 495
 His Asn Thr Ser Trp Asn Gly Met Ile Gly Glu Leu Ile Ser Lys Arg
 500 505 510
 Ala Asp Leu Ala Ile Ser Ala Ile Thr Ile Thr Pro Glu Arg Glu Ser
 515 520 525
 Val Val Asp Phe Ser Lys Arg Tyr Met Asp Tyr Ser Val Gly Ile Leu
 530 535 540
 Ile Lys Lys Pro Glu Glu Lys Ile Ser Ile Phe Ser Leu Phe Ala Pro
 545 550 555 560
 Phe Asp Phe Ala Val Trp Ala Cys Ile Ala Ala Ala Ile Pro Val Val
 565 570 575
 Gly Val Leu Ile Phe Val Leu Asn Arg Ile Gln Ala Val Arg Ala Gln
 580 585 590
 Ser Ala Ala Gln Pro Arg Pro Ser Ala Ser Ala Thr Leu His Ser Ala
 595 600 605
 Ile Trp Ile Val Tyr Gly Ala Phe Val Gln Gln Gly Gly Glu Ser Ser
 610 615 620
 Val Asn Ser Met Ala Met Arg Ile Val Met Gly Ser Trp Trp Leu Phe

625 630 635 640
Thr Leu Ile Val Cys Ser Ser Tyr Thr Ala Asn Leu Ala Ala Phe Leu
 645 650 655
Thr Val Ser Arg Met Asp Asn Pro Ile Arg Thr Phe Gln Asp Leu Ser
 660 665 670
Lys Gln Val Glu Met Ser Tyr Gly Thr Val Arg Asp Ser Ala Val Tyr
 675 680 685
Glu Tyr Phe Arg Ala Lys Gly Thr Asn Pro Leu Glu Gln Asp Ser Thr
 690 695 700
Phe Ala Glu Leu Trp Arg Thr Ile Ser Lys Asn Gly Gly Ala Asp Asn
705 710 715 720
Cys Val Ser Ser Pro Ser Glu Gly Ile Arg Lys Ala Lys Lys Gly Asn
 725 730 735
Tyr Ala Phe Leu Trp Asp Val Ala Val Val Glu Tyr Ala Ala Leu Thr
 740 745 750
Asp Asp Asp Cys Ser Val Thr Val Ile Gly Asn Ser Ile Ser Ser Lys
 755 760 765
Gly Tyr Gly Ile Ala Leu Gln His Gly Ser Pro Tyr Arg Asp Leu Phe
 770 775 780
Ser Gln Arg Ile Leu Glu Leu Gln Asp Thr Gly Asp Leu Asp Val Leu
785 790 795 800
Lys Gln Lys Trp Trp Pro His Met Gly Arg Cys Asp Leu Thr Ser His
 805 810 815
Ala Ser Ala Gln Ala Asp Gly Lys Ser Leu Lys Leu His Ser Phe Ala
 820 825 830
Gly Val Phe Cys Ile Leu Ala Ile Gly Leu Leu Leu Ala Cys Leu Val
 835 840 845
Ala Ala Leu Glu Leu Trp Trp Asn Ser Asn Arg Cys His Gln Glu Thr
 850 855 860

Pro Lys Glu Asp Lys Glu Val Asn Leu Glu Gln Val His Arg Arg Met
 865 870 875 880
 Asn Ser Leu Met Asp Glu Asp Ile Ala His Lys Gln Ile Ser Pro Ala
 885 890 895
 Ser Ile Glu Leu Ser Ala Leu Glu Met Gly Gly Leu Ala Pro Thr Gln
 900 905 910
 Thr Leu Glu Pro Thr Arg Glu Tyr Gln Asn Thr Gln Leu Ser Val Ser
 915 920 925
 Thr Phe Leu Pro Glu Gln Ser Ser His Gly Thr Ser Arg Thr Leu Ser
 930 935 940
 Ser Gly Pro Ser Ser Asn Leu Pro Leu Pro Leu Ser Ser Ser Ala Thr
 945 950 955 960
 Met Pro Ser Met Gln Cys Lys His Arg Ser Pro Asn Gly Gly Leu Phe
 965 970 975
 Arg Gln Ser Pro Val Lys Thr Pro Ile Pro Met Ser Phe Gln Pro Val
 980 985 990
 Pro Gly Gly Val Leu Pro Glu Ala Leu Asp Thr Ser His Gly Thr Ser
 995 1000 1005
 Ile

<210> 2508

<211> 266

<212> PRT

<213> Homo sapiens

<400> 2508

Met Glu Ser Glu Gly Pro Pro Glu Ser Glu Ser Ser Glu Phe Phe Ser

1	5	10	15
Gln Gln Glu Glu Glu Asn Glu Glu Glu Glu Ala Gln Glu Pro Glu Glu			
20	25	30	
Thr Gly Pro Lys Asn Pro Leu Leu Gln Pro Ala Leu Thr Gly Asp Val			
35	40	45	
Glu Gly Leu Gln Lys Ile Phe Glu Asp Pro Glu Asn Pro His His Glu			
50	55	60	
Gln Ala Met Gln Leu Leu Leu Glu Glu Asp Ile Val Gly Arg Asn Leu			
65	70	75	80
Leu Tyr Ala Ala Cys Met Ala Gly Gln Ser Asp Val Ile Arg Ala Leu			
85	90	95	
Ala Lys Tyr Gly Val Asn Leu Asn Glu Lys Thr Thr Arg Gly Tyr Thr			
100	105	110	
Leu Leu His Cys Ala Ala Ala Trp Gly Arg Leu Glu Thr Leu Lys Ala			
115	120	125	
Leu Val Glu Leu Asp Val Asp Ile Glu Ala Leu Asn Phe Arg Glu Glu			
130	135	140	
Arg Ala Arg Asp Val Ala Ala Arg Tyr Ser Gln Thr Glu Cys Val Glu			
145	150	155	160
Phe Leu Asp Trp Ala Asp Ala Arg Leu Thr Leu Lys Lys Tyr Ile Ala			
165	170	175	
Lys Val Ser Leu Ala Val Thr Asp Thr Glu Lys Gly Ser Gly Lys Leu			
180	185	190	
Leu Lys Glu Asp Lys Asn Thr Ile Leu Ser Ala Cys Arg Ala Lys Asn			
195	200	205	
Glu Trp Leu Glu Thr His Thr Glu Ala Ser Ile Asn Glu Leu Phe Glu			
210	215	220	
Gln Arg Gln Gln Leu Glu Asp Ile Val Thr Pro Ile Phe Thr Lys Met			
225	230	235	240

Thr Thr Pro Cys Gln Val Lys Ser Ala Lys Ser Val Thr Ser His Asp
 245 250 255

Gln Lys Arg Ser Gln Asp Asp Thr Ser Asn
 260 265

<210> 2509

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2509

Met Ser Lys Thr Glu Val Val Ile Ser Pro Pro Pro Pro Ser Thr Pro
 1 5 10 15

Ser Pro Ser Trp Met Gln Ala Val Ala Lys Val Lys Phe Pro Gly Leu
 20 25 30

Met Ala Val Ser Ala Pro Ser Leu Ser Pro His Thr Pro His Ser Ala
 35 40 45

Ser Pro Val Ala Gln Pro Ile Gln Pro Leu Leu Thr Ala Leu Asn Ala
 50 55 60

Ser Leu Arg Ser Arg His Thr Val Phe Leu Val Asp Thr Thr Gly Ile
 65 70 75 80

His Pro Thr His Thr Leu Thr Leu Leu Ser Leu His Pro His Arg Leu
 85 90 95

Val Val His Ser Pro His Ile Pro Gln Thr His Ala Leu Lys Met Trp
 100 105 110

Ile Arg Ser Ser Pro Gly Ser
 115

<210> 2510

<211> 315

<212> PRT

<213> Homo sapiens

<400> 2510

Met Gly Phe Leu Glu Glu Gly Arg Trp Asn Leu Ser Phe Ser Gly

1 5 10 15

Ala Gly Tyr Leu Gly Ala His His Val Gly Ala Thr Glu Cys Leu Arg

20 25 30

Gln Arg Ala Pro Arg Leu Leu Gln Gly Ala Arg Arg Ile Tyr Gly Ser

35 40 45

Ser Ser Gly Ala Leu Asn Ala Val Ser Ile Val Cys Gly Lys Ser Val

50 55 60

Asp Cys Pro Ser Thr Ile Thr Val Ser Pro Phe His Gly Thr Val Asp

65 70 75 80

Ile Cys Pro Gln Ser Thr Ser Pro Asn Leu His Glu Leu Asn Val Phe

85 90 95

Asn Phe Ser Phe Gln Ile Ser Thr Glu Asn Phe Phe Leu Gly Leu Ile

100 105 110

Cys Leu Ile Pro Pro Ser Leu Glu Val Val Ala Asp Asn Cys Arg Gln

115 120 125

Gly Tyr Leu Asp Ala Leu Arg Phe Leu Glu Arg Arg Gly Leu Thr Lys

130 135 140

Glu Pro Val Leu Trp Thr Leu Val Ser Lys Glu Pro Pro Ala Pro Ala

145 150 155 160

Asp Gly Asn Trp Asp Ala Gly Cys Asp Gln Arg Trp Lys Gly Gly Leu

165 170 175

Ser Leu Asn Trp Lys Val Pro His Val Gln Val Lys Asp Val Pro Asn

180

185

190

Phe Glu Gln Leu Ser Pro Glu Leu Glu Ala Ala Leu Glu Lys Ala Cys

195

200

205

Thr Arg Asp Pro Ser Arg Trp Ala Arg Phe Trp His Ser Gly Pro Gly

210

215

220

Gln Val Leu Thr Tyr Leu Leu Leu Pro Cys Thr Leu Pro Phe Glu Tyr

225

230

235

240

Ile Tyr Phe Arg Ser Arg Arg Leu Val Val Trp Leu Pro Asp Val Pro

245

250

255

Ala Asp Leu Trp Trp Met Gln Gly Leu Leu Arg Asn Met Ala Leu Glu

260

265

270

Val Phe Ser Arg Thr Lys Ala Gln Leu Leu Gly Pro Ile Ser Pro Pro

275

280

285

Ala Thr Arg Val Leu Glu Thr Ser Pro Leu Gln Pro Gln Ile Ala Pro

290

295

300

His Arg Glu Glu Leu Gly Pro Thr His Gln Ala

305

310

315

<210> 2511

<211> 289

<212> PRT

<213> Homo sapiens

<400> 2511

Met Lys Thr Ala Glu Asn Ile Arg Gly Thr Gly Ser Asp Gly Pro Arg

1

5

10

15

Lys Arg Gly Leu Cys Val Leu Cys Gly Leu Pro Ala Ala Gly Lys Ser

20	25	30
Thr Phe Ala Arg Ala Leu Ala His Arg Leu Gln Gln Glu Gln Gly Trp		
35	40	45
Ala Ile Gly Val Val Ala Tyr Asp Asp Val Met Pro Asp Ala Phe Leu		
50	55	60
Ala Gly Ala Arg Ala Arg Pro Ala Pro Ser Gln Trp Lys Leu Leu Arg		
65	70	75
Gln Glu Leu Leu Lys Tyr Leu Glu Tyr Phe Leu Met Ala Val Ile Asn		
85	90	95
Gly Cys Gln Met Ser Val Pro Pro Asn Arg Thr Glu Ala Met Trp Glu		
100	105	110
Asp Phe Ile Thr Cys Leu Lys Asp Gln Asp Leu Ile Phe Ser Ala Ala		
115	120	125
Phe Glu Ala Gln Ser Cys Tyr Leu Leu Thr Lys Thr Ala Val Ser Arg		
130	135	140
Pro Leu Phe Leu Val Leu Asp Asp Asn Phe Tyr Tyr Gln Ser Met Arg		
145	150	155
Tyr Glu Val Tyr Gln Leu Ala Arg Lys Tyr Ser Leu Gly Phe Cys Gln		
165	170	175
Leu Phe Leu Asp Cys Pro Leu Glu Thr Cys Leu Gln Arg Asn Gly Gln		
180	185	190
Arg Pro Gln Ala Leu Pro Pro Glu Thr Ile His Leu Met Gly Arg Lys		
195	200	205
Leu Glu Lys Pro Asn Pro Glu Lys Asn Ala Trp Glu His Asn Ser Leu		
210	215	220
Thr Ile Pro Ser Pro Ala Cys Ala Ser Glu Ala Ser Leu Glu Val Thr		
225	230	235
Asp Leu Leu Leu Thr Ala Leu Glu Asn Pro Val Lys Tyr Ala Glu Asp		
245	250	255

Asn Met Glu Gln Lys Val Asn Phe Gln Cys Lys Phe Asn Val Asn Glu
 260 265 270
 Lys Glu Gln Leu Phe Val Gly Arg Ser Phe Glu Pro Ile Ile Lys Cys
 275 280 285
 Glu

<210> 2512

<211> 202

<212> PRT

<213> Homo sapiens

<400> 2512

Met Lys Ala Val Cys Lys Trp Arg Leu Met Leu Met Gly His Arg Glu
 1 5 10 15
 Tyr Lys Gly Trp Pro Val Phe Pro Arg Arg Gln Ser Ser His Gly Gly
 20 25 30
 Leu Tyr Leu Cys Met Pro Gln Asp Gln Ser Pro Glu Thr Met Glu Thr
 35 40 45
 Leu Gly Pro Trp Pro Cys Leu Gly Leu Asp Lys Leu Lys Gln Leu Phe
 50 55 60
 Leu Gly Leu Trp Pro Cys Ser Pro Lys Thr Asn Ile Leu Tyr Leu Val
 65 70 75 80
 Ala Glu Tyr Ser Asn Pro Gly Pro Ala Arg Gly His Gly Ser Leu Gln
 85 90 95
 Gly Glu Ala Asp Ser Gln Ile Cys Trp Gln Met Thr Pro Ile Leu Thr
 100 105 110
 Phe Ser Met Gly Asp Ala Cys Pro Glu Glu Gln Asp Pro Glu Gly Arg

115 120 125
 Phe Val Ala Arg Leu Pro Ser Ser Phe His Leu Ser Arg Leu Pro Phe
 130 135 140
 Leu His Lys Asp Asp Asp Gly Asn Lys Met Thr Gly Val Met Pro Gly
 145 150 155 160
 Thr Lys Val Leu Ile Leu Pro Pro Thr Ala Thr Phe Leu Ser Phe Thr
 165 170 175
 Leu Ala Arg Asn Asn His Glu Gly Trp Val Cys Phe Gly Lys Cys Leu
 180 185 190
 Ser Leu Tyr Leu Asn Asp Lys Glu Leu Asn
 195 200

<210> 2513

<211> 791

<212> PRT

<213> Homo sapiens

<400> 2513

Met Ala Asp Asp Lys Val Ala Ile Leu Thr Asp Asp Glu Glu Glu Gln
 1 5 10 15
 Lys Arg Lys Tyr Val Leu Ala Asp Pro Phe Asn Gly Ile Ser Arg Glu
 20 25 30
 Pro Glu Pro Pro Ser Asn Glu Thr Pro Ser Ser Thr Glu Thr Ser Ala
 35 40 45
 Ile Pro Glu Glu Glu Ile Asp Trp Ile Glu Lys His Cys Val Lys Ile
 50 55 60
 Asn Asn Asp Leu Leu Ile Ser Lys Val Phe Tyr Phe Phe Phe Tyr Ser
 65 70 75 80

出証特 2 0 0 4 - 3 0 5 9 6 6 1

305 310 315 320
Arg Asp Arg Tyr Gly Leu Gln Arg Met Trp Gly Ser Leu Gly Trp Gly
 325 330 335
Leu Ala Met Leu Ser Val Gly Ile Gly Ile Asp Tyr Thr His Ile Glu
 340 345 350
Val Leu Ile Asp Gly Lys Gly Cys Lys Pro Pro Glu Tyr Arg Asn Tyr
 355 360 365
Gln Ile Val Phe Ile Val Phe Gly Val Leu Met Thr Met Ala Leu Ile
 370 375 380
Val Ala Thr Gln Phe Arg Phe Arg Tyr Asn His Phe Lys Asn Asp Asp
385 390 395 400
Ser Lys Gly Lys Glu Val Glu Ile Pro Gln Val Glu Arg Asn Asn Ser
 405 410 415
Thr Glu Ser Ser Glu Glu Thr Pro Thr Thr Thr Ser His Ser Gln Ala
 420 425 430
Phe Asn Phe Trp Asp Leu Ile Lys Leu Leu Cys Ser Val Gln Tyr Gly
 435 440 445
Ser Val Leu Phe Val Ala Trp Phe Met Gly Phe Gly Tyr Gly Phe Val
 450 455 460
Phe Thr Phe Leu Tyr Trp His Leu Glu Asp Leu Asn Gly Thr Thr Thr
465 470 475 480
Leu Phe Gly Val Cys Ser Val Leu Ser His Val Ser Glu Leu Thr Ala
 485 490 495
Tyr Phe Phe Ser His Lys Leu Ile Glu Leu Ile Gly His Ile Arg Val
 500 505 510
Leu Tyr Ile Gly Leu Ala Cys Asn Thr Ala Arg Tyr Ile Tyr Ile Ser
 515 520 525
Tyr Leu Glu Asn Ala Trp Thr Val Leu Pro Met Glu Val Leu Gln Gly
 530 535 540

Val Thr His Ala Ala Ile Trp Ala Ala Cys Ile Ser Tyr Leu Ser Ala
545 550 555 560
Ala Val Pro Pro Glu Leu Arg Thr Ser Ala Gln Gly Ile Leu Gln Gly
565 570 575
Leu His Leu Gly Leu Gly Arg Gly Cys Gly Ala Met Ile Gly Gly Val
580 585 590
Leu Val Asn Tyr Phe Gly Ala Ala Ala Thr Phe Arg Gly Ile Gly Met
595 600 605
Ala Cys Leu Val Ile Leu Leu Leu Phe Ala Leu Ile Gln Trp Leu Ala
610 615 620
Val Pro Asp Glu Glu Glu Asp Lys Thr Met Leu Ala Glu Arg Ile Pro
625 630 635 640
Val Pro Ser Ser Pro Val Pro Ile Ala Thr Ile Asp Leu Val Gln Gln
645 650 655
Gln Thr Glu Asp Val Met Pro Arg Ile Glu Pro Arg Leu Pro Pro Lys
660 665 670
Lys Thr Lys His Gln Glu Glu Gln Glu Asp Val Asn Lys Pro Ala Trp
675 680 685
Gly Val Ser Ser Ser Pro Trp Val Thr Phe Val Tyr Ala Leu Tyr Gln
690 695 700
Ile Lys Glu Met Met Gln Leu Thr Arg Asp Asn Arg Ala Ser Glu Ile
705 710 715 720
Gln Pro Leu Gln Gly Thr Asn Glu Asn Arg Glu Asn Ser Pro Ala Gly
725 730 735
Arg Ala Gln Pro Val Pro Cys Glu Thr His Ser Asp Pro Ser Arg Asn
740 745 750
Gln Pro Ser Pro Asp Ala Ala Ala Ser Gln Thr Gln Thr Ser Pro Ala
755 760 765
His Pro Ser Val Asp Pro Cys Thr Glu Glu Ser Glu Glu Gln Gln Ala

770 775 780
Gln Leu Ala Ala Gly Gly His
785 790

<210> 2514

<211> 279

<212> PRT

<213> Homo sapiens

<400> 2514

Met Phe Met Gly Ile Val Ala Ala Thr Asp Phe Ile Trp Leu Asn Cys
1 5 10 15
Tyr Asn Ile Asp Ser Phe Cys Leu Phe Gln Phe Ile Arg Met Gln Phe
20 25 30
Ile Leu Ile Leu Ile Leu Val Val Glu Val Gly Asp Leu Lys Glu Leu
35 40 45
Gln Thr Leu Asp Ile Ser Thr Asn Arg Leu Leu Thr Leu Pro Glu Arg
50 55 60
Leu His Met Cys Leu Ser Leu Gln Tyr Leu Thr Val Asp Arg Asn Arg
65 70 75 80
Leu Trp Tyr Val Pro Arg His Leu Cys Gln Leu Pro Ser Leu Asn Glu
85 90 95
Leu Ser Met Ala Gly Asn Arg Leu Ala Phe Leu Pro Leu Asp Leu Gly
100 105 110
Arg Ser Arg Glu Leu Gln Tyr Val Tyr Val Asp Asn Asn Ile His Leu
115 120 125
Lys Gly Leu Pro Ser Tyr Leu Tyr Asn Lys Val Ile Gly Cys Ser Gly
130 135 140

Cys Gly Ala Pro Ile Gln Val Ser Glu Val Lys Leu Leu Ser Phe Ser
 145 150 155 160
 Ser Gly Gln Arg Thr Val Phe Leu Pro Ala Glu Val Lys Ala Ile Gly
 165 170 175
 Thr Glu His Asp His Val Leu Pro Leu Gln Glu Leu Ala Met Arg Gly
 180 185 190
 Leu Tyr His Thr Tyr His Ser Leu Leu Lys Asp Leu Asn Phe Leu Ser
 195 200 205
 Pro Ile Ser Leu Pro Arg Ser Leu Leu Glu Leu Leu His Cys Pro Leu
 210 215 220
 Gly His Cys His Arg Cys Ser Glu Pro Met Phe Thr Ile Val Tyr Pro
 225 230 235 240
 Lys Leu Phe Pro Leu Arg Glu Thr Pro Met Ala Gly Leu His Gln Trp
 245 250 255
 Lys Thr Thr Val Ser Phe Val Ala Tyr Cys Cys Ser Thr Gln Cys Leu
 260 265 270
 Gln Thr Phe Asp Leu Leu Ser
 275

<210> 2515

<211> 175

<212> PRT

<213> Homo sapiens

<400> 2515

Met Glu Glu Arg Pro Gln Arg His Phe Arg Asp Phe Gln Gly Cys Pro
 1 5 10 15
 Ser Tyr His Arg Pro Arg Gly Leu Gly Gly Gln Asn Gly Phe Arg Glu

	20		25		30										
Gln	Ala	Gln	Ala	Leu	Ser	Val	Gly	Leu	Leu	Pro	Lys	Thr	Thr	Ser	Arg
	35		40		45										
Leu	Cys	Ala	Pro	Ala	Gln	Tyr	Ser	Glu	Asp	Thr	Pro	Ala	Arg	Thr	Gln
	50		55		60										
Ala	Gly	Gln	Gly	Val	Ala	His	Ala	Ala	Asp	Leu	Glu	Val	Tyr	His	Asn
	65		70		75										80
Pro	Glu	Trp	Arg	Glu	Val	Asn	Ile	Leu	Trp	Gly	Asn	Leu	Gln	Leu	Leu
			85				90				95				
Glu	Asp	Arg	Ser	Gln	Gly	Ile	Asp	Ser	Pro	Leu	Leu	Pro	Ser	Asp	Leu
	100		105		110										
Glu	Met	His	Phe	Ile	Arg	Leu	Leu	Arg	Trp	Phe	Ser	Gly	Thr	Glu	Gln
	115		120		125										
Pro	Phe	Thr	Ser	Gly	Asp	Gly	Gln	Leu	Asp	Lys	Thr	Ser	Phe	His	Trp
	130		135		140										
Ile	Ser	Leu	Leu	Leu	Cys	Cys	Ala	Pro	Ser	Ala	Leu	Leu	Gln	Leu	Ser
	145		150		155										160
Glu	Val	Met	Leu	Pro	Ser	Gln	Ile	Leu	Ser	His	Lys	Pro	Leu	Pro	
			165				170				175				

<210> 2516

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2516

Met	Arg	Ser	Phe	Ser	Val	Pro	Gly	Leu	Phe	His	Ile	Ile	Ser	Phe	Ser
1				5					10					15	

Ser Ile His Val Val Ala Asn Asp Arg Ile Ser Phe Phe Phe Met Ala
 20 25 30
 Glu Trp Phe Phe Ile Val Tyr Met Tyr His Ile Ser Phe Ile His Ser
 35 40 45
 Phe Val Asp Gly His Leu Gly Cys Leu Gln Ile Leu Ala Val Val Asn
 50 55 60
 Ser Ala Val Ile Asn Met Gly Val Gln Arg Cys Leu Gln Tyr Thr Asp
 65 70 75 80
 Phe His Ser Phe Arg Tyr Ile Leu Gly Ser Arg Ile Ala Gly Ser Tyr
 85 90 95
 Gly Ser Ser Ile Val Arg Phe Ile Phe Tyr Leu Lys Lys His Phe Phe
 100 105 110
 Glu Thr Val Ser Leu Cys Cys Leu Gly Trp Ser Ala Met Ala Gln Ser
 115 120 125
 Trp Leu Thr Val Thr Ser Ala Ser Gln Val Gln Val Ile Leu Leu Pro
 130 135 140
 Gln Pro Pro Glu Cys Leu Gly Leu Gln Val Cys Ala Thr Thr Leu Gly
 145 150 155 160

<210> 2517

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2517

Met Thr Cys Asp Thr Ala Ala Leu Val Cys Leu Gly Leu Glu Gln Leu
 1 5 10 15
 Gly Arg Ala Pro Val Gly Ala Gly Arg Leu Thr Ala Trp Thr Thr Thr

	20		25		30
Ser	Cys	Val	Ala	Gly	Ala
Gly	Gly	Pro	Glu	Arg	Ser
Ser	Ser	Tyr	Arg	Ser	
	35		40		45
Cys	Phe	Pro	Gly	Gly	Leu
Thr	Thr	Gly	Thr	Ala	Ser
Cys	Leu	Gln	Leu		
	50		55		60
Arg	Thr	Leu	Lys	Pro	Gly
Leu	Leu	Trp	Gly	His	Phe
Gln	His	Pro	Leu		
	65		70		75
Leu	Ser	Gly	Ile	Ser	Ser
Gln	Asn	Ile	Pro	Val	Pro
Arg	Asp	Cys	Ile		
	85		90		95
Ala	Pro	Phe	Thr	Trp	Trp
Pro	Ser	Pro	Leu	Cys	Val
Pro	Leu	Ala	Pro		
	100		105		110
Cys	Pro	Pro	Gly	Ser	Gln
Asp	Leu	Gly			
	115		120		

<210> 2518

<211> 439

<212> PRT

<213> Homo sapiens

<400> 2518

Met	Leu	Gln	Thr	Thr	Trp	Pro	Gln	Glu	Ser	Val	Thr	Phe	Glu	Asp	Val
1				5					10					15	
Ala	Val	Tyr	Phe	Thr	Gln	Asn	Gln	Trp	Ala	Ser	Leu	Asp	Pro	Ala	Gln
				20				25					30		
Arg	Ala	Leu	Tyr	Gly	Glu	Val	Met	Leu	Glu	Asn	Tyr	Ala	Asn	Val	Ala
				35				40					45		
Ser	Leu	Val	Ala	Phe	Pro	Phe	Pro	Lys	Pro	Ala	Leu	Ile	Ser	His	Leu
				50				55					60		

Glu Arg Gly Glu Ala Pro Trp Gly Pro Asp Pro Trp Asp Thr Glu Ile
 65 70 75 80
 Leu Arg Gly Ile Ser Gln Gly Gly Glu Ser Trp Ile Lys Asn Glu Gly
 85 90 95
 Leu Val Ile Lys Gln Glu Ala Ser Glu Glu Thr Glu Leu His Arg Met
 100 105 110
 Pro Val Gly Gly Leu Leu Arg Asn Val Ser Gln His Phe Asp Phe Lys
 115 120 125
 Arg Lys Ala Leu Lys Gln Thr Phe Asn Leu Asn Pro Asn Leu Ile Leu
 130 135 140
 Arg Gly Gly Met Lys Phe Tyr Glu Cys Lys Glu Cys Gly Lys Ile Phe
 145 150 155 160
 Arg Tyr Asn Ser Lys Leu Ile Arg His Gln Met Ser His Thr Gly Glu
 165 170 175
 Lys Pro Phe Lys Cys Lys Glu Cys Gly Lys Ala Phe Lys Ser Ser Tyr
 180 185 190
 Asp Cys Ile Val His Glu Lys Asn His Ile Gly Glu Gly Pro Tyr Glu
 195 200 205
 Cys Lys Glu Cys Gly Lys Gly Leu Ser Ser Asn Thr Ala Leu Thr Gln
 210 215 220
 His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys
 225 230 235 240
 Gly Lys Ala Phe Arg Arg Ser Ala Ala Tyr Leu Gln His Gln Arg Leu
 245 250 255
 His Thr Gly Glu Lys Leu Tyr Lys Cys Lys Glu Cys Trp Lys Ala Phe
 260 265 270
 Gly Cys Arg Ser Leu Phe Ile Val His Gln Arg Ile His Thr Gly Glu
 275 280 285
 Lys Pro Tyr Gln Cys Lys Glu Cys Gly Lys Ala Phe Thr Gln Lys Ile

290	295	300	
Ala Ser Ile Gln His Gln Arg Val His Thr Gly Glu Lys Pro Tyr Glu			
305	310	315	320
Cys Lys Val Cys Gly Lys Ala Phe Lys Trp Tyr Gly Ser Phe Val Gln			
	325	330	335
His Gln Lys Leu His Pro Val Glu Lys Lys Pro Val Lys Val Leu Gly			
	340	345	350
Pro Ser Leu Val Ser Pro Gln Cys Ser Ser Pro Ala Ile Pro Pro Val			
	355	360	365
Leu Leu Gln Gly Ser Cys Ser Ala Ser Ala Val Ala Val Pro Ser Leu			
	370	375	380
Thr Phe Pro His Ala Val Leu Ile Pro Thr Ser Gly Asn Phe Phe Met			
385	390	395	400
Leu Leu Pro Thr Ser Gly Ile Pro Ser Ser Ser Ala Gln Ile Val Arg			
	405	410	415
Val Phe Gln Gly Leu Thr Pro Thr Val Lys Pro Ser Pro Val Ile Leu			
	420	425	430
Thr Pro Ser Ser His Ser Ser			
	435		

<210> 2519

<211> 178

<212> PRT

<213> Homo sapiens

<400> 2519

Met Pro Gly Ala Val Gly Gly Ser Arg Ala Pro Ala Asp Ser Ser Glu

1

5

10

15

Arg Pro Ala Ala Arg Pro Gly Gly Arg Gly Asn Val Gly Asp Arg Gly
20 25 30
Glu Leu Pro Gly Arg Arg Gln Pro Arg Ser Phe Glu Ala Arg Arg Ala
35 40 45
Gly Lys Pro His Gly Asp Gly Trp Ala Gly Ala Gly Arg Ser Ala Leu
50 55 60
Thr Arg Ser Pro Ala Ala Arg Ala Asp Gly Gly Arg Leu Lys Glu Gly
65 70 75 80
Ala Ser Leu Pro Pro Pro Ala Ala Gly Gly Arg Phe Arg Ser Leu Pro
85 90 95
Leu Pro Leu Arg Ser Gly Ala Pro Arg Ala Pro Ser Gln Arg Ala Arg
100 105 110
Gly Ala Pro Ala Pro Cys Arg Ser Arg Cys Val Ile Gly Arg Arg Arg
115 120 125
Phe Leu Ser Thr Ser Thr Gly Leu Gly Asp Thr Gly Gly Arg Trp Gly
130 135 140
Leu Pro Leu Pro Leu Lys Thr Leu Gly Leu Ser Val Gly Arg Ala Phe
145 150 155 160
Ile Pro His Pro Thr Leu Cys Arg Pro Ser Pro Gly Glu Ala Pro Leu
165 170 175
Ala Leu

<210> 2520

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2520

Met Lys Thr Leu Phe Pro Gly Arg Ser Gln Pro Leu Gly Gln Ala Leu
1 5 10 15
Leu Leu Arg Leu Gly Leu Arg Asp Ala Ile His Leu Leu Phe Cys Phe
20 25 30
Phe Tyr Phe Leu Gly Glu Ile Ala Ala Gly Pro Arg Gly Arg Trp Arg
35 40 45
Leu Gly Glu Gly Cys Leu Gly Gln Arg Lys Gly Gly Gln Ala Tyr Trp
50 55 60
Gly Pro Arg Ser His Cys Arg Gly Gly Pro Ser Val Val Phe Ser Cys
65 70 75 80
Trp Ala Pro Gly Trp Arg Ser Arg Val Leu Phe Phe Arg Pro Gly Val
85 90 95
Cys Gln Ala Gly Lys Pro Leu Trp Glu Glu Val Pro Leu Cys Phe Leu
100 105 110
Gln Gly Ala Trp Glu Leu Pro Leu Trp Thr Glu Gly Gly His Ile Gly
115 120 125
Gly Gly Ser Glu Gly Ala Gln Gly His Thr Gly His Leu Glu Cys Ser
130 135 140
Gln
145

<210> 2521

<211> 449

<212> PRT

<213> Homo sapiens

<400> 2521

Met Cys Phe Leu Phe Ser Thr Phe Pro Arg Thr Gly Lys Cys His Val
 1 5 10 15
 Gln Thr Ile Gln Leu Cys Arg Arg Leu Thr Val Glu Phe Met His Tyr
 20 25 30
 Ile Ile Ala Ala Arg Ala Leu Arg Lys Val Phe Leu Ser Ile Lys Gly
 35 40 45
 Ile Tyr Tyr Gln Ala Glu Val Leu Gly Gln Pro Ile Val Trp Ile Thr
 50 55 60
 Pro Tyr Ala Phe Ser His Asp His Pro Thr Asp Val Asp Tyr Arg Val
 65 70 75 80
 Met Ala Thr Phe Thr Glu Phe Tyr Thr Thr Leu Leu Gly Phe Val Asn
 85 90 95
 Phe Arg Leu Tyr Gln Leu Leu Asn Leu His Tyr Pro Pro Lys Leu Glu
 100 105 110
 Gly Gln Ala Gln Ala Glu Ala Lys Ala Gly Glu Gly Thr Tyr Ala Leu
 115 120 125
 Asp Ser Glu Ser Cys Met Glu Lys Leu Ala Ala Leu Ser Ala Ser Leu
 130 135 140
 Ala Arg Val Val Val Pro Ala Thr Glu Glu Glu Ala Glu Val Asp Glu
 145 150 155 160
 Phe Pro Thr Asp Gly Glu Met Ser Ala Gln Glu Glu Asp Arg Arg Lys
 165 170 175
 Glu Leu Glu Ala Gln Glu Lys His Lys Lys Leu Phe Glu Gly Leu Lys
 180 185 190
 Phe Phe Leu Asn Arg Glu Val Pro Arg Glu Ala Leu Ala Phe Ile Ile
 195 200 205
 Arg Ser Phe Gly Gly Glu Val Ser Trp Asp Lys Ser Leu Cys Ile Gly
 210 215 220
 Ala Thr Tyr Asp Val Thr Asp Ser Arg Ile Thr His Gln Ile Val Asp

225 230 235 240
 Arg Pro Gly Gln Gln Thr Ser Val Ile Gly Arg Cys Tyr Val Gln Pro
 245 250 255
 Gln Trp Val Phe Asp Ser Val Asn Ala Arg Leu Leu Leu Pro Val Ala
 260 265 270
 Glu Tyr Phe Ser Gly Val Gln Leu Pro Pro His Leu Ser Pro Phe Val
 275 280 285
 Thr Glu Lys Glu Gly Asp Tyr Val Pro Pro Glu Lys Leu Lys Leu Leu
 290 295 300
 Ala Leu Gln Arg Gly Glu Asp Pro Gly Asn Leu Asn Glu Ser Glu Glu
 305 310 315 320
 Glu Glu Glu Glu Asp Asp Asn Asn Glu Gly Asp Gly Asp Glu Glu Gly
 325 330 335
 Glu Asn Glu Glu Glu Glu Glu Asp Ala Glu Ala Gly Ser Glu Lys Glu
 340 345 350
 Glu Glu Ala Arg Leu Ala Ala Leu Glu Glu Gln Arg Met Glu Gly Lys
 355 360 365
 Lys Pro Arg Val Met Ala Gly Thr Leu Lys Leu Glu Asp Lys Gln Arg
 370 375 380
 Leu Ala Gln Glu Glu Glu Ser Glu Ala Lys Arg Leu Ala Ile Met Met
 385 390 395 400
 Met Lys Lys Arg Glu Lys Tyr Leu Tyr Gln Lys Ile Met Phe Gly Lys
 405 410 415
 Arg Arg Lys Ile Arg Glu Ala Asn Lys Leu Ala Glu Lys Arg Lys Ala
 420 425 430
 His Asp Glu Ala Val Arg Ser Glu Lys Lys Ala Lys Lys Ala Arg Pro
 435 440 445
 Glu

<210> 2522

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2522

Met Cys Ile Tyr Thr Pro Ile Glu Asn Glu Trp Ser Val Ser Ser Ser

1 5 10 15

Trp Ala Leu Gly Ser Trp Pro Ile Gly Gly Leu Arg Trp Gln Ala Trp

20 25 30

Trp Lys Gly Trp Arg His Val Pro Leu Trp Thr Lys Ala Gln Thr Lys

35 40 45

Gly Ser Leu Trp Glu Gln Gly Phe Ser Ser Ala Gly Cys His Thr Arg

50 55 60

Glu Lys Ser Gly Ile Arg Ile Gln Ala Thr Asn Arg Ala Ala Val Trp

65 70 75 80

Ser Ser Lys Thr Cys Cys Cys Ser Ser Ala Ala Val Ala Ala Met His

85 90 95

Met Leu Arg Asp Met Pro Pro Pro Ser Glu Ser Gly Leu Asn Pro Pro

100 105 110

Asn Gly Ser Glu Ser Pro His Ile Ser Ala Gln Ala Val Gly Leu Arg

115 120 125

Pro Leu Leu Ser Tyr Pro Leu Ile His Pro Ala Ile Met Ser Gln Ser

130 135 140

Arg Arg

145

<210> 2523

<211> 216

<212> PRT

<213> Homo sapiens

<400> 2523

Met Asp Ile Phe Ser Lys Ala Pro Phe Val Ser Lys Ser Ser Met Ala

1 5 10 15

Pro Ser Gln Pro Glu Glu Ser Asp Val Phe Leu Arg Ala Pro Phe Thr

20 25 30

Lys Lys Lys Ser Met Glu Glu Leu Thr Val Ile Gln Cys Thr Ser Gln

35 40 45

Glu Leu Pro Ala Gln Thr Gly Leu Leu Ser Gln Thr Gly Asp Val Pro

50 55 60

Leu Pro Ala Gly Arg Glu Arg Ala Val Tyr Thr Ser Val Gln Ala Gln

65 70 75 80

Tyr Ser Thr Ala Gly Phe Val Gln Gln Ser Asn Leu Leu Ser His Ser

85 90 95

Val Gln Ala Ala Asp His Leu Asp Ser Ile Ser Pro Arg Gly Ser Cys

100 105 110

Leu Glu Ser Gly Gly His Ser Asn Asp Arg Asn Lys Gly Pro Gln Leu

115 120 125

Gln Lys Glu Ala Val Ser Gly Pro Met Ala Gly Lys Pro Phe Arg Pro

130 135 140

Gln Ser Leu Ser Lys Tyr Ser Arg His Tyr Ser Pro Glu Asp Glu Pro

145 150 155 160

Ser Pro Glu Ala Gln Pro Ile Ala Ala Tyr Lys Ile Val Ser Gln Thr

165 170 175

Asn Lys Gln Ser Ile Ala Gly Ser Val Ser Ile Thr Ser Leu Ser Ser
 180 185 190
 Arg Thr Thr Glu Leu Pro Ala Ala Asp Pro Phe Ala Leu Ala Pro Phe
 195 200 205
 Pro Ser Lys Ser Gly Lys Lys Pro
 210 215

<210> 2524

<211> 1028

<212> PRT

<213> Homo sapiens

<400> 2524

Met Phe Thr Leu Thr Gly Cys Arg Leu Val Glu Lys Thr Gln Lys Val
 1 5 10 15
 Glu Asn Pro Ser Val Ser Phe Ala Ser Ser Phe Pro Leu Ile Pro Leu
 20 25 30
 Leu Leu Arg Gly Lys Ser Val Gln Lys Lys Gln Ala Glu Ser Lys Ser
 35 40 45
 Gln Ile Lys Leu His Thr Gln Ser Ala Pro Phe Gly Leu Cys Pro Lys
 50 55 60
 Asp Leu Met Leu Thr Gln Ala Pro Ser Ser Val Val Arg Ser Arg Asn
 65 70 75 80
 Ser Arg Asn His Thr Val Asn Ser Gly Gly Ser Cys Leu Ser Ala Ser
 85 90 95
 Thr Val Ala Ile Pro Ala Ile Asn Asp Ser Ser Ala Ala Met Ser Ala
 100 105 110
 Cys Ser Thr Ile Ser Ala Gln Pro Ala Ser Ser Met Asp Thr Gln Met

115	120	125
Arg Ser Pro Lys Lys Gln Glu Arg Val Asn Lys Arg Val Ile Trp Gly		
130	135	140
Ile Glu Val Ala Glu Glu Leu His Trp Lys Gly Trp Glu Leu Gly Lys		
145	150	155
Glu Thr Thr Arg Asn Leu Val Leu Lys Asn Arg Ser Leu Lys Leu Gln		
165	170	175
Lys Met Lys Tyr Arg Pro Pro Lys Thr Lys Phe Phe Phe Thr Val Ile		
180	185	190
Pro Gln Pro Ile Phe Leu Ser Pro Gly Ile Thr Leu Thr Leu Pro Ile		
195	200	205
Val Phe Arg Pro Leu Glu Ala Lys Glu Tyr Met Asp Gln Leu Trp Phe		
210	215	220
Glu Lys Ala Glu Gly Met Phe Cys Val Gly Leu Arg Ala Thr Leu Pro		
225	230	235
Cys His Arg Leu Ile Cys Arg Pro Pro Ser Leu Gln Leu Pro Met Cys		
245	250	255
Ala Val Gly Asp Thr Thr Glu Ala Phe Phe Cys Leu Asp Asn Val Gly		
260	265	270
Asp Leu Pro Thr Phe Phe Thr Trp Glu Phe Ser Ser Pro Phe Gln Met		
275	280	285
Leu Pro Ala Thr Gly Leu Leu Glu Pro Gly Gln Ala Ser Gln Ile Lys		
290	295	300
Val Thr Phe Gln Pro Leu Thr Ala Val Ile Tyr Glu Val Gln Ala Ala		
305	310	315
Cys Trp Tyr Gly Ala Gly Ser Arg Gln Arg Ser Ser Ile Gln Leu Gln		
325	330	335
Ala Val Ala Lys Cys Ala Gln Leu Leu Val Ser Ile Lys His Lys Cys		
340	345	350

Pro Glu Asp Gln Asp Ala Glu Gly Phe Gln Lys Leu Leu Tyr Phe Gly
 355 360 365
 Ser Val Ala Val Gly Cys Thr Ser Glu Arg Gln Ile Arg Leu His Asn
 370 375 380
 Pro Ser Ala Val Asn Ala Pro Phe Arg Ile Glu Ile Ser Pro Asp Glu
 385 390 395 400
 Leu Ala Glu Asp Gln Ala Phe Ser Cys Pro Thr Ala His Gly Ile Val
 405 410 415
 Leu Pro Gly Glu Lys Lys Cys Val Ser Val Phe Phe His Pro Lys Thr
 420 425 430
 Leu Asp Thr Arg Thr Val Asp Tyr Cys Ser Ile Met Pro Ser Gly Cys
 435 440 445
 Ala Ser Lys Thr Leu Leu Lys Val Val Gly Phe Cys Arg Gly Pro Ala
 450 455 460
 Val Ser Leu Gln His Tyr Cys Val Asn Phe Ser Trp Val Asn Leu Gly
 465 470 475 480
 Glu Arg Ser Glu Gln Pro Leu Trp Ile Glu Asn Gln Ser Asp Cys Thr
 485 490 495
 Ala His Phe Gln Phe Ala Ile Asp Cys Leu Glu Ser Val Phe Thr Ile
 500 505 510
 Arg Pro Ala Phe Gly Thr Leu Val Gly Lys Ala Arg Met Thr Leu His
 515 520 525
 Cys Ala Phe Gln Pro Thr His Pro Ile Ile Cys Phe Arg Arg Val Ala
 530 535 540
 Cys Leu Ile His His Gln Asp Pro Leu Phe Leu Asp Leu Met Gly Thr
 545 550 555 560
 Cys His Ser Asp Ser Thr Lys Pro Ala Ile Leu Lys Pro Gln His Leu
 565 570 575
 Thr Trp Tyr Arg Thr His Leu Ala Arg Gly Leu Thr Leu Tyr Pro Pro

580 585 590
Asp Ile Leu Asp Ala Met Leu Lys Glu Lys Lys Leu Ala Gln Asp Gln
595 600 605
Asn Gly Ala Leu Met Ile Pro Ile Gln Asp Leu Glu Asp Met Pro Ala
610 615 620
Pro Gln Tyr Pro Tyr Ile Pro Pro Met Thr Glu Phe Phe Phe Asp Gly
625 630 635 640
Thr Ser Asp Ile Thr Ile Phe Pro Pro Pro Ile Ser Val Glu Pro Val
645 650 655
Glu Val Asp Phe Gly Ala Cys Pro Trp Pro Glu Ala Pro Asn Pro Val
660 665 670
Pro Leu Cys Leu Met Asn His Thr Lys Gly Lys Ile Met Val Val Trp
675 680 685
Thr Arg Arg Ser Asp Cys Pro Phe Trp Val Thr Pro Glu Ser Cys Asp
690 695 700
Val Pro Pro Leu Lys Ser Met Ala Met Arg Leu His Phe Gln Pro Pro
705 710 715 720
His Pro Asn Cys Leu Tyr Thr Val Glu Leu Glu Ala Phe Ala Ile Tyr
725 730 735
Lys Val Leu Gln Ser Tyr Ser Asn Ile Glu Glu Asp Cys Thr Met Cys
740 745 750
Pro Ser Trp Cys Leu Thr Val Arg Ala Arg Gly His Ser Tyr Phe Ala
755 760 765
Gly Phe Glu His His Ile Pro Gln Tyr Ser Leu Asp Val Pro Lys Leu
770 775 780
Phe Pro Ala Val Ser Ser Gly Glu Pro Thr Tyr Arg Ser Leu Leu Leu
785 790 795 800
Val Asn Lys Asp Cys Lys Leu Leu Thr Phe Ser Leu Ala Pro Gln Arg
805 810 815

Gly Ser Asp Val Ile Leu Arg Pro Thr Ser Gly Leu Val Ala Pro Gly
820 825 830
Ala His Gln Ile Ile Leu Ile Cys Thr Tyr Pro Glu Gly Ser Ser Trp
835 840 845
Lys Gln His Thr Phe Tyr Leu Gln Cys Asn Ala Ser Pro Gln Tyr Leu
850 855 860
Lys Glu Val Ser Met Tyr Ser Arg Glu Glu Pro Leu Gln Leu Lys Leu
865 870 875 880
Asp Thr His Lys Ser Leu Tyr Phe Lys Pro Thr Trp Val Gly Cys Ser
885 890 895
Ser Thr Ser Pro Phe Thr Phe Arg Asn Pro Ser Arg Leu Pro Leu Gln
900 905 910
Phe Glu Trp Arg Val Ser Glu Gln His Arg Lys Leu Leu Ala Val Gln
915 920 925
Pro Ser Arg Gly Leu Ile Gln Pro Asn Glu Arg Leu Thr Leu Thr Trp
930 935 940
Thr Phe Ser Pro Leu Glu Glu Thr Lys Tyr Leu Phe Gln Val Gly Met
945 950 955 960
Trp Val Trp Glu Ala Gly Leu Ser Pro Asn Ala Asn Pro Ala Ala Thr
965 970 975
Thr His Tyr Met Leu Arg Leu Val Gly Val Gly Leu Thr Ser Ser Leu
980 985 990
Ser Ala Lys Glu Lys Glu Leu Ala Phe Gly Asn Val Leu Val Asn Ser
995 1000 1005
Lys Gln Ser Arg Phe Leu Val Leu Leu Asn Asp Gly Asn Cys Thr Pro
1010 1015 1020
Leu His Arg Gln
1025

<210> 2525

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2525

Met Leu Gly Leu Gln His Glu Ser Pro Arg Pro Ala Lys Lys Asp Pro

1 5 10 15

Tyr Phe Val Leu Phe Ser Phe Leu Arg Trp Ser Leu Ala Leu Ser Leu

20 25 30

Arg Leu Glu Cys Ser Gly Ala Ile Ser Ala His Cys Asn Leu His Leu

35 40 45

Leu Gly Ser Ser His Ser Pro Ala Ser Ala Ser Arg Val Ala Gly Thr

50 55 60

Thr Gly Ala His His His Ala Trp Leu Ile Phe Val Phe Leu Val Gln

65 70 75 80

Thr Gly Pro Asp Trp Ser Arg Thr Pro Asp Leu Arg Arg Ser Thr Arg

85 90 95

Leu Ser Leu Pro Lys Cys Trp Asn Tyr Arg Cys Glu Pro Ser His Leu

100 105 110

Ala Thr Arg Pro Pro Leu Thr Ser Val Gly Met Ala Pro Gly Leu Arg

115 120 125

Gly Gln Lys Arg Ser Arg Ala Ser Lys Gln Asp Leu Gly Leu Ile Glu

130 135 140

Gly Asn Leu His Thr Glu Gln Ser Ser Gly Gly Gly Leu Asp Arg Arg

145 150 155 160

Thr Ala Pro Pro Ala Glu Ser Met Gln Tyr Ile

165 170

<210> 2526

<211> 202

<212> PRT

<213> Homo sapiens

<400> 2526

Met Leu Val Glu Thr Gly Phe Cys Arg Val Gly Gln Ala Gly Leu Glu

1 5 10 15

Leu Leu Ser Ser Ser Asp Lys Ala Ala Gly Leu Asp Leu Pro Lys Cys

20 25 30

Trp Asp Tyr Arg His Glu Pro Pro Arg Leu Ala Pro Leu Leu Ile Phe

35 40 45

Asn Pro His Pro Ser Thr Val Leu Ser Cys Asn Cys Glu Tyr Asn Ser

50 55 60

Phe Phe Glu Phe Cys Asp Ser Leu Gln Gln Ile Val Ile Pro Glu Arg

65 70 75 80

Val Leu Gly Thr Pro Arg His Ile Phe Pro Leu Pro Leu Leu Phe Ser

85 90 95

His Phe Leu Trp Ser Lys Leu Lys Glu Ala Pro Ala Cys Leu Leu Gln

100 105 110

Gly Ser Ser Glu His Thr Glu Ile Ile Cys Asp Leu Ile Ser Ser Ser

115 120 125

Lys Gln Phe Ile Lys Lys Phe Leu Ser Asn Lys Pro Ser Ala Leu His

130 135 140

Gly Gly Asp Ala Asp Glu Asn Asp Phe Leu Gln Leu Ile Thr Arg Leu

145 150 155 160

Gln Lys Leu Leu Phe Lys Ser Leu Ser Met Tyr Val Cys Val His Ile

出証特 2 0 0 4 - 3 0 5 9 6 6 1

<210> 2528

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2528

Met Ala Ser Pro Thr Leu Gly Leu Val Pro His Met Val Ser Glu Thr

1 5 10 15

His Thr Val Trp Leu Glu Asp Ser Thr Val Thr Ser Gln Ala Gln Pro

20 25 30

Ser Ala Ser Pro Pro Leu Ala Ala Leu Gly Cys Trp Pro Ser Ser Asp

35 40 45

Gly Ser Arg Ala Gln Ser Ala Val Ser Gln Glu Lys Pro Ala Ser Ser

50 55 60

Leu Arg Gly Leu Glu Glu Pro Phe Ser Leu Ser Leu Val Phe Asp Ala

65 70 75 80

Ser Ala Pro Ala His Cys Gly Val Arg Val Gly Leu Ser Ala Gln Pro

85 90 95

Cys Pro Asn Lys Ser Ser Lys Ala Leu Phe

100 105

<210> 2529

<211> 386

<212> PRT

<213> Homo sapiens

<400> 2529

Met Asn Glu Pro Thr Glu Asn Arg Leu Gly Cys Ser Arg Thr Pro Glu

1	5	10	15
Pro Asp Ile Arg	Leu Arg Lys Gly His Gln	Leu Asp Gly Thr	Arg Arg
20	25	30	
Gly Asp Asn Asp	Ser His Gln Gly Asp	Leu Glu Pro Ile	Leu Glu Ala
35	40	45	
Ser Val Leu Ser	Ser His His Lys Lys Ser	Ser Glu Glu His	Glu Tyr
50	55	60	
Ser Asp Glu Ala	Pro Gln Glu Asp Glu Gly Phe	Met Gly Met Ser	Pro
65	70	75	80
Leu Leu Gln Ala	His His Ala Met Glu Lys Met	Glu Glu Phe Val	Cys
85	90	95	
Lys Val Trp Glu	Gly Arg Trp Arg Val Ile Pro	His Asp Val Leu	Pro
100	105	110	
Asp Trp Leu Lys	Asp Asn Asp Phe Leu Leu His	Gly His Arg Pro	Pro
115	120	125	
Met Pro Ser Phe	Arg Ala Cys Phe Lys Ser Ile Phe	Arg Ile His Thr	
130	135	140	
Glu Thr Gly Asn	Ile Trp Thr His Leu Leu Gly	Cys Val Phe Phe	Leu
145	150	155	160
Cys Leu Gly Ile	Phe Tyr Met Phe Arg Pro Asn	Ile Ser Phe Val	Ala
165	170	175	
Pro Leu Gln Glu	Lys Val Val Phe Gly Leu Phe Phe	Leu Gly Ala Ile	
180	185	190	
Leu Cys Leu Ser	Phe Ser Trp Leu Phe His Thr	Val Tyr Cys His	Ser
195	200	205	
Glu Gly Val Ser	Arg Leu Phe Ser Lys Leu Asp Tyr	Ser Gly Ile Ala	
210	215	220	
Leu Leu Ile Met	Gly Ser Phe Val Pro Trp Leu Tyr	Tyr Ser Phe Tyr	
225	230	235	240

Cys Asn Pro Gln Pro Cys Phe Ile Tyr Leu Ile Val Ile Cys Val Leu
245 250 255
Gly Ile Ala Ala Ile Ile Val Ser Gln Trp Asp Met Phe Ala Thr Pro
260 265 270
Gln Tyr Arg Gly Val Arg Ala Gly Val Phe Leu Gly Leu Gly Leu Ser
275 280 285
Gly Ile Ile Pro Thr Leu His Tyr Val Ile Ser Glu Gly Phe Leu Lys
290 295 300
Ala Ala Thr Ile Gly Gln Ile Gly Trp Leu Met Leu Met Ala Ser Leu
305 310 315 320
Tyr Ile Thr Gly Ala Ala Leu Tyr Ala Ala Arg Ile Pro Glu Arg Phe
325 330 335
Phe Pro Gly Lys Cys Asp Ile Trp Phe His Ser His Gln Leu Phe His
340 345 350
Ile Phe Val Val Ala Gly Ala Phe Val His Phe His Gly Val Ser Asn
355 360 365
Leu Gln Glu Phe Arg Phe Met Ile Gly Gly Gly Cys Ser Glu Glu Asp
370 375 380
Ala Leu
385

<210> 2530

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2530

Met Ala Leu Ser Pro Asp Cys Glu Ala Pro Leu Lys Lys Glu Gly Gly

1	5	10	15
Leu Pro Glu Gly Pro Val Leu Glu Ala Leu Leu Cys Ala Glu Thr Gly			
20	25	30	
Glu Lys Lys Ile Glu Leu Lys Glu Glu Glu Ile Ile Met Asp Cys Gln			
35	40	45	
Lys Gln Gln Leu Leu Glu Phe Pro His Asp Leu Glu Val Glu Asp Leu			
50	55	60	
Glu Asp Asp Ile Pro Arg Arg Lys Asn Arg Ala Lys Gly Lys Ala Tyr			
65	70	75	80
Gly Ile Gly Gly Leu Arg Lys Arg Gln Asp Thr Ala Ser Leu Glu Asp			
85	90	95	
Arg Asp Lys Pro Tyr Val Cys Asp Ser Glu Ser Phe			
100	105		

<210> 2531

<211> 154

<212> PRT

<213> Homo sapiens

<400> 2531

Met Leu Thr His Leu Gly Leu Ser Thr Glu Thr Glu Ala Arg Pro Ala			
1	5	10	15
Ala Pro Thr Cys Ser Val Gly Trp His Arg Ala Asn Ala Pro Ala Ala			
20	25	30	
Tyr Ser Pro Cys Pro Trp Leu Met Ser Val Ile Asn Leu Arg Thr Phe			
35	40	45	
Pro Thr Glu Pro Gly Gln Gly Leu Gln Ala Ser Ala Gln Asn Cys Arg			
50	55	60	

Gln Pro Pro Pro Gly Ile Val Asn Lys Thr Ser Val Pro Pro Pro Ala
 65 70 75 80
 Pro Leu Gln Ser Asn Pro Phe His Pro Lys Gln Gly Asp Trp Gln Ser
 85 90 95
 Pro Ala Arg His Gly Ala Arg Val Gly Thr Ala Ser Val Cys Leu Cys
 100 105 110
 Leu Gly Val Met Asn Lys Leu Ala Thr Lys Ile Gly Val Thr Leu Gly
 115 120 125
 Ala His Gln Arg Cys Pro Val Ser Trp Val Cys Glu Ser Lys Lys Arg
 130 135 140
 Ser Leu Ala Gln Gly Val Thr Gly Ser Asn
 145 150

<210> 2532

<211> 593

<212> PRT

<213> Homo sapiens

<400> 2532

Met Val Leu Ser Ala Cys Gln Glu Thr Tyr Glu Asn Thr Ser His Gln
 1 5 10 15
 Val His Thr Leu Arg Arg Leu Val Lys Glu Lys Glu Glu Ala Phe Gln
 20 25 30
 Arg Arg Cys His Leu Glu Pro Asn Val Arg Gly Leu Glu Ser Val Asp
 35 40 45
 Ser Glu Ala Leu Ala Arg Val Gly Pro Ala Glu Leu Ser Glu Gly Met
 50 55 60
 Pro Pro Ser Asp Leu Asp Leu Leu Ala Pro Ala Pro Pro Pro Glu Glu

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Asn Leu Gln Met Leu Thr Pro Gln Leu Asn Ala Ile Ile Ala Ala Ser
305 310 315 320
Ala Ser Val Lys Ser Ser Gln Lys Leu Lys Gln Met Leu Glu Ile Ile
325 330 335
Leu Ala Leu Gly Asn Tyr Met Asn Ser Ser Lys Arg Gly Ala Val Tyr
340 345 350
Gly Phe Lys Leu Gln Ser Leu Asp Leu Leu Leu Asp Thr Lys Ser Thr
355 360 365
Asp Arg Lys Met Thr Leu Leu His Phe Ile Ala Leu Thr Val Lys Glu
370 375 380
Lys Tyr Pro Asp Leu Ala Asn Phe Trp His Glu Leu His Phe Val Glu
385 390 395 400
Lys Ala Ala Ala Val Ser Leu Glu Asn Val Leu Leu Asp Val Lys Glu
405 410 415
Leu Gly Arg Gly Met Glu Leu Ile Arg Arg Glu Cys Ser Ile His Asp
420 425 430
Asn Ser Val Leu Arg Asn Phe Leu Ser Thr Asn Glu Gly Lys Leu Asp
435 440 445
Lys Leu Gln Arg Asp Ala Lys Thr Ala Glu Glu Ala Tyr Asn Ala Val
450 455 460
Val Arg Tyr Phe Gly Glu Ser Pro Lys Thr Thr Pro Pro Ser Val Phe
465 470 475 480
Phe Pro Val Phe Val Arg Phe Ile Arg Ser Tyr Lys Glu Ala Glu Gln
485 490 495
Glu Asn Glu Ala Arg Lys Lys Gln Glu Glu Val Met Arg Glu Lys Gln
500 505 510
Leu Ala Gln Glu Ala Lys Lys Leu Asp Ala Lys Thr Pro Ser Gln Arg
515 520 525
Asn Lys Trp Gln Gln Gln Glu Leu Ile Ala Glu Leu Arg Arg Arg Gln

530 535 540
 Ala Lys Glu His Arg Pro Val Tyr Glu Gly Lys Asp Gly Thr Ile Glu
 545 550 555 560
 Asp Ile Ile Thr Gly Leu His Cys Gln Pro Met Val Val Arg His Gln
 565 570 575
 Ala Arg Ser Ala Ala Pro Pro Ser Gly Pro Pro Arg Ala Pro Gly Pro
 580 585 590
 His

<210> 2533

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2533

Met Ser Gly Val Lys Ala Glu Ser Gln Asp Phe Ile Pro Gly Ser Thr
 1 5 10 15
 Gly Gln Pro Cys Leu Pro Asn Val Leu Leu Glu Ser Glu Gln Ser Asn
 20 25 30
 Pro Phe Cys Ser Tyr Ser Glu His Gln Glu Lys Asn Asp Val Phe Leu
 35 40 45
 Tyr Arg Cys Ser Val Cys Ala Lys Ser Phe Arg Ser Pro Ser Lys Leu
 50 55 60
 Glu Arg His Tyr Leu Ile His Ala Gly Gln Lys Pro Phe Glu Cys Ser
 65 70 75 80
 Val Cys Gly Lys Thr Phe Arg Gln Ala Pro His Trp Lys Arg His Gln
 85 90 95

Leu Thr His Phe Lys Glu Arg Pro Gln Gly Lys Val Val Ala Leu Asp

100

105

110

Ser Val Met

115

<210> 2534

<211> 406

<212> PRT

<213> Homo sapiens

<400> 2534

Met Ala Asp Ser Gln Leu Phe Cys Val Ala Glu Glu Arg Ser Gly His

1

5

10

15

Cys Ala Val Val Asp Gly Asn Phe Leu Tyr Val Trp Gly Gly Tyr Val

20

25

30

Ser Ile Glu Asp Asn Glu Val Tyr Leu Pro Asn Asp Glu Ile Trp Thr

35

40

45

Tyr Asp Ile Asp Ser Gly Leu Trp Arg Met His Leu Met Glu Gly Glu

50

55

60

Leu Pro Ala Ser Met Ser Gly Ser Cys Gly Ala Cys Ile Asn Gly Lys

65

70

75

80

Leu Tyr Ile Phe Gly Gly Tyr Asp Asp Lys Gly Tyr Ser Asn Arg Leu

85

90

95

Tyr Phe Val Asn Leu Arg Thr Arg Asp Glu Thr Tyr Ile Trp Glu Lys

100

105

110

Ile Thr Asp Phe Glu Gly Gln Pro Pro Thr Pro Arg Asp Lys Leu Ser

115

120

125

Cys Trp Val Tyr Lys Asp Arg Leu Ile Tyr Phe Gly Gly Tyr Gly Cys

130	135	140
Arg Arg His Ser Glu Leu Gln Asp Cys Phe Asp Val His Asp Ala Ser		
145	150	155
Trp Glu Glu Gln Ile Phe Trp Gly Trp His Asn Asp Val His Ile Phe		
165	170	175
Asp Thr Lys Thr Gln Thr Trp Phe Gln Pro Glu Ile Lys Gly Gly Val		
180	185	190
Pro Pro Gln Pro Arg Ala Ala His Thr Cys Ala Val Leu Gly Asn Lys		
195	200	205
Gly Tyr Ile Phe Gly Gly Arg Val Leu Gln Thr Arg Met Asn Asp Leu		
210	215	220
His Tyr Leu Asn Leu Asp Thr Trp Thr Trp Ser Gly Arg Ile Thr Ile		
225	230	235
Asn Gly Glu Ser Pro Lys His Arg Ser Trp His Thr Leu Thr Pro Ile		
245	250	255
Ala Asp Asp Lys Leu Phe Leu Cys Gly Gly Leu Ser Ala Asp Asn Ile		
260	265	270
Pro Leu Ser Asp Gly Trp Ile His Asn Val Thr Thr Asn Cys Trp Lys		
275	280	285
Gln Leu Thr His Leu Pro Lys Thr Arg Pro Arg Leu Trp His Thr Ala		
290	295	300
Cys Leu Gly Lys Glu Asn Glu Ile Met Val Phe Gly Gly Ser Lys Asp		
305	310	315
Asp Leu Leu Ala Leu Asp Thr Gly His Cys Asn Asp Leu Leu Ile Phe		
325	330	335
Gln Thr Gln Pro Tyr Ser Leu Leu Arg Ser Cys Leu Asp Cys Ile Gly		
340	345	350
Lys Asn Ser Ile Met Leu Glu Ser Gln Ile Ser Leu Leu Pro Pro Lys		
355	360	365

Leu Leu Gln Gln Val Leu Lys Lys Ile Thr Phe Trp Ala Ala Ala Asn
 370 375 380
 His Arg Glu Glu Gln Arg Val Gln Lys Glu Glu Thr Glu Asn Lys Tyr
 385 390 395 400
 Gln Trp Ile Ser Ser Asn
 405

<210> 2535

<211> 432

<212> PRT

<213> Homo sapiens

<400> 2535

Met Leu Gln Glu Asp Pro Val Leu Phe Gln Leu Tyr Lys Asp Leu Val
 1 5 10 15
 Val Ser Gln Val Ile Ser Ala Glu Glu Phe Trp Ala Asn Arg Leu Asn
 20 25 30
 Val Asn Ala Thr Asp Ser Ser Ser Thr Ser Asn His Lys Gln Asp Val
 35 40 45
 Gly Ile Ser Ala Ala Phe Leu Ala Asp Val Arg Pro Gln Thr Asp Gly
 50 55 60
 Cys Asn Gly Leu Arg Tyr Asn Leu Thr Ser Asp Ile Ile Glu Ser Ile
 65 70 75 80
 Phe Arg Thr Tyr Pro Ala Val Lys Met Lys Tyr Ala Glu Asn Val Pro
 85 90 95
 His Asn Met Thr Glu Lys Glu Phe Trp Thr Arg Phe Phe Gln Ser His
 100 105 110
 Tyr Phe His Arg Asp Arg Leu Asn Thr Gly Ser Lys Asp Leu Phe Ala

115 120 125
Glu Cys Ala Lys Ile Asp Glu Lys Gly Leu Lys Thr Met Val Ser Leu
130 135 140
Gly Val Lys Asn Pro Leu Leu Asp Leu Thr Ala Leu Glu Asp Lys Pro
145 150 155 160
Leu Asp Glu Gly Tyr Gly Ile Ser Ser Val Pro Ser Ala Ser Asn Ser
165 170 175
Lys Ser Ile Lys Glu Asn Ser Asn Ala Ala Ile Ile Lys Arg Phe Asn
180 185 190
His His Ser Ala Met Val Leu Ala Ala Gly Leu Arg Lys Gln Glu Ala
195 200 205
Gln Asn Glu Gln Thr Ser Glu Pro Ser Asn Met Asp Gly Asn Ser Gly
210 215 220
Asp Ala Asp Cys Phe Gln Pro Ala Val Lys Arg Ala Lys Leu Gln Glu
225 230 235 240
Ser Ile Glu Tyr Glu Asp Leu Gly Lys Asn Asn Ser Val Lys Thr Ile
245 250 255
Ala Leu Asn Leu Lys Lys Ser Asp Arg Tyr Tyr His Gly Pro Thr Pro
260 265 270
Ile Gln Ser Leu Gln Tyr Ala Thr Ser Gln Asp Ile Ile Asn Ser Phe
275 280 285
Gln Ser Ile Arg Gln Glu Met Glu Ala Tyr Thr Pro Lys Leu Thr Gln
290 295 300
Val Leu Ser Ser Ser Ala Ala Ser Ser Thr Ile Thr Ala Leu Ser Pro
305 310 315 320
Gly Gly Ala Leu Met Gln Gly Gly Thr Gln Gln Ala Ile Asn Gln Met
325 330 335
Val Pro Asn Asp Ile Gln Ser Glu Leu Lys His Leu Tyr Val Ala Val
340 345 350

Gly Glu Leu Leu Arg His Phe Trp Ser Cys Phe Pro Val Asn Thr Pro
 355 360 365
 Phe Leu Glu Glu Lys Val Val Lys Met Lys Ser Asn Leu Glu Arg Phe
 370 375 380
 Gln Val Thr Lys Leu Cys Pro Phe Gln Glu Lys Ile Arg Arg Gln Tyr
 385 390 395 400
 Leu Ser Thr Asn Leu Val Ser His Ile Glu Glu Met Leu Gln Thr Ala
 405 410 415
 Tyr Asn Lys Leu His Thr Trp Gln Ser Arg Arg Leu Met Lys Lys Thr
 420 425 430

<210> 2536

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2536

Met His Ser Ile His Leu Phe Leu Thr Ser Glu Leu Val Thr Val Pro
 1 5 10 15
 Pro Cys Met Leu Ile Lys Tyr Thr Ala Ala Thr Leu Val Lys Ser Leu
 20 25 30
 Lys Tyr Glu Ala Ser Cys Glu Tyr Ser Thr Ile Lys Ser Leu Leu Glu
 35 40 45
 Asn Gly Val Thr Arg Leu Leu Gly Leu Leu Gln Asn Asp Tyr Val Arg
 50 55 60
 Arg Leu Val Pro Phe Ser Ser Thr Gln Ala Met Val Ser Asp Ser Thr
 65 70 75 80
 Met Ala Leu Ile Lys Trp Leu Pro Ala His Arg Asn Leu Ile Ile Asn

	85	90	95
Val Leu Cys Val Ala			
100			

<210> 2537

<211> 511

<212> PRT

<213> Homo sapiens

<400> 2537

Met Lys Asn Tyr Glu Gln Ala Leu Gln Asp Ala Ser Ala Ala Cys Gln			
1	5	10	15
Asn Glu Pro Leu Leu Ile Lys Gly His Gln Val Lys Ala Gln Ala Leu			
20	25	30	
Ser Gly Leu Gly Arg Ser Lys Glu Val Leu Lys Glu Phe Leu Tyr Cys			
35	40	45	
Leu Ala Leu Asn Pro Glu Cys Asn Ser Val Lys Lys Glu Ala Gln Lys			
50	55	60	
Val Met Cys Glu Val Leu Phe Ser Ala Thr Ala Asn Val His Glu Asn			
65	70	75	80
Leu Thr Ser Ser Ile Gln Ser Arg Leu Lys Ala Gln Gly His Ser His			
85	90	95	
Met Asn Ala Gln Ala Leu Leu Glu Glu Gly Asp Ala Gly Ser Ser Glu			
100	105	110	
Asn Ser Ser Glu Lys Ser Asp Met Leu Gly Asn Thr Asn Ser Ser Val			
115	120	125	
Leu Tyr Phe Ile Leu Gly Leu His Phe Glu Glu Asp Lys Lys Ala Leu			
130	135	140	

Glu Ser Ile Leu Pro Thr Ala Pro Ser Ala Gly Leu Lys Arg Gln Phe
145 150 155 160
Pro Asp Asp Val Glu Asp Ala Pro Asp Leu Asn Ala Pro Gly Lys Ile
165 170 175
Pro Lys Lys Asp Leu Ser Pro Gln Arg Ser Pro Asn Ser Glu Thr Glu
180 185 190
Glu Ser Gln Gly Leu Ser Leu Asp Val Thr Asp Phe Glu Cys Ala Leu
195 200 205
Cys Met Arg Leu Leu Phe Glu Pro Val Thr Thr Pro Cys Gly His Thr
210 215 220
Phe Cys Leu Lys Cys Leu Glu Arg Cys Leu Asp His Ala Pro His Cys
225 230 235 240
Pro Leu Cys Lys Asp Lys Leu Ser Glu Leu Leu Ala Ser Arg Asn Phe
245 250 255
Asn Ile Thr Val Leu Ala Glu Glu Leu Ile Phe Arg Tyr Leu Pro Asp
260 265 270
Glu Leu Ser Asp Arg Lys Arg Ile Tyr Asp Glu Glu Met Ser Glu Leu
275 280 285
Ser Asn Leu Thr Arg Asp Val Pro Ile Phe Val Cys Ala Met Ala Phe
290 295 300
Pro Thr Val Pro Cys Pro Leu His Val Phe Glu Pro Arg Tyr Arg Leu
305 310 315 320
Met Ile Arg Arg Cys Met Glu Thr Gly Thr Lys Arg Phe Gly Met Cys
325 330 335
Leu Ser Ala Glu His Ala Gly Leu Ser Glu Tyr Gly Cys Met Leu Glu
340 345 350
Ile Lys Asp Val Arg Thr Phe Pro Asp Gly Ser Ser Val Val Asp Ala
355 360 365
Ile Gly Ile Ser Arg Phe Arg Val Leu Ser His Arg His Arg Asp Gly

370	375	380	
Tyr Asn Thr Ala Asp Ile Glu Tyr Leu Glu Asp Glu Lys Val Glu Gly			
385	390	395	400
Pro Glu Tyr Glu Glu Leu Ala Ala Leu His Asp Ser Val His Gln Gln			
405	410	415	
Ser Val Ser Trp Phe Ala Ser Leu Gln Asp Arg Met Lys Glu Gln Ile			
420	425	430	
Leu Ser His Phe Gly Val Met Pro Asp Arg Glu Pro Glu Pro Gln Ser			
435	440	445	
Asn Pro Ser Gly Pro Ala Trp Ser Trp Trp Ile Leu Ala Val Leu Pro			
450	455	460	
Leu Glu Arg Lys Ala Gln Leu Ala Ile Leu Gly Met Thr Ser Leu Lys			
465	470	475	480
Glu Arg Leu Leu Ala Ile Arg Arg Ile Leu Val Ile Ile Thr Arg Lys			
485	490	495	
Met Asn Ser Arg Gln Glu Leu Ala Asn Ala Arg Glu Arg Asn Asn			
500	505	510	

<210> 2538

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2538

Met Gly Arg Gly Leu Pro Asp Glu Glu Gln Glu Lys Leu Leu Arg Ile			
1	5	10	15
Cys Ser Ile Tyr Thr Gln Ser Gly Glu Asn Ser Leu Val Gln Glu Gly			
20	25	30	

Ser Glu Ala Ser Pro Ile Gly Lys Ser Pro Tyr Thr Leu Asp Ser Leu
 35 40 45
 Tyr Trp Ser Val Lys Pro Ala Ser Ser Ser Phe Gly Ser Glu Ala Lys
 50 55 60
 Ala Gln Gln Gln Glu Glu Gln Gly Ser Val Asn Asp Val Lys Glu Glu
 65 70 75 80
 Glu Lys Glu Glu Lys Glu Val Leu Pro Asp Gln Val Glu Glu Glu Glu
 85 90 95
 Glu Asn Asp Asp Gln Glu Glu Glu Glu Glu Asp Glu Asp Asp Glu Asp
 100 105 110
 Asp Glu Glu Glu Asp Arg Met Glu Val Gly Pro Phe Ser Thr Gly Gln
 115 120 125
 Glu Ser Pro Thr Ala Glu Asn Ala Arg Leu Leu Ala Gln Lys Arg Gly
 130 135 140
 Ala Leu Gln Gly Ser Ala Trp Gln Val Ser Ser Glu Asp Val Arg Trp
 145 150 155 160
 Asp Thr Phe Pro Leu Gly Arg Met Pro Gly Gln Thr Glu Asp Pro Ala
 165 170 175
 Glu Leu Met Leu Glu Asn Tyr Asp Thr Met Tyr Leu Trp Thr Ser Leu
 180 185 190
 Cys

<210> 2539

<211> 168

<212> PRT

<213> Homo sapiens

<400> 2539

Met Gly Trp Arg Phe Pro Ser Pro Ser Pro Arg Gln Ala Ser Pro Val
 1 5 10 15
 Ala Pro Leu Leu Ala Ala Pro Thr Ala Val Arg Ser Cys Ser His Cys
 20 25 30
 Ser Gly Gln Arg Glu Ala Ile Ser Ser His Pro Leu Gln Leu Glu Thr
 35 40 45
 Pro Glu Leu Gly Val Cys Leu Pro Trp His Trp Glu Gly Trp Arg Gln
 50 55 60
 Val Arg Lys Ile Thr Pro Ser Leu Pro Gln Pro Pro Gly Ser Gln Val
 65 70 75 80
 Pro Leu Glu Val Thr Phe His Val Arg Ala Thr Leu Pro His Phe Arg
 85 90 95
 Gly Gly Glu Thr Lys Ala Arg Arg Ala Arg Glu Glu Gly Lys Leu Pro
 100 105 110
 Ser Leu Gly Asn Ala Pro Ala Pro Arg Arg Arg Ser Val Ala Trp Pro
 115 120 125
 Ala Ala Glu Gly Ser Cys Ala Ala Pro Glu Ser Ser Pro Pro Ala Ser
 130 135 140
 Glu Ala Ser Leu Pro Ala Pro Glu Ser Ser Leu Leu Val Ala Gly Ser
 145 150 155 160
 Gly Asp Leu Cys Ala Asp Ser Phe
 165

<210> 2540

<211> 597

<212> PRT

<213> Homo sapiens

<400> 2540

Met Ala Leu Asn Ser Pro Gln Pro Gly Pro Val Glu Ser Glu Leu Gly
 1 5 10 15
 Lys Gln Leu Leu Lys Thr Gly Trp Glu Gly Ser Pro Leu Pro Arg Ser
 20 25 30
 Pro Thr Gln Asp Ala Ala Gly Val Gly Pro Pro Ala Ser Gln Gly Arg
 35 40 45
 Gly Pro Ala Gly Glu Pro Met Gly Pro Glu Ala Gly Ser Lys Ala Glu
 50 55 60
 Leu Pro Pro Thr Val Ser Arg Pro Pro Leu Leu Arg Gly Leu Ser Trp
 65 70 75 80
 Asp Ser Gly Pro Glu Glu Pro Gly Pro Arg Leu Gln Lys Val Leu Ala
 85 90 95
 Lys Leu Pro Leu Ala Glu Glu Glu Lys Arg Phe Ala Gly Lys Ala Gly
 100 105 110
 Gly Lys Leu Ala Lys Ala Pro Gly Leu Lys Asp Phe Gln Ile Gln Val
 115 120 125
 Gln Pro Val Arg Met Gln Lys Leu Thr Lys Leu Arg Glu Glu His Ile
 130 135 140
 Leu Met Arg Asn Gln Asn Leu Val Gly Leu Lys Leu Pro Asp Leu Ser
 145 150 155 160
 Glu Ala Ala Glu Gln Glu Lys Gly Leu Pro Ser Glu Leu Ser Pro Ala
 165 170 175
 Ile Glu Glu Glu Glu Ser Lys Ser Gly Leu Asp Val Met Pro Asn Ile
 180 185 190
 Ser Asp Val Leu Leu Arg Lys Leu Arg Val His Arg Ser Leu Pro Gly
 195 200 205
 Ser Ala Pro Pro Leu Thr Glu Lys Glu Val Glu Asn Val Phe Val Gln

210 215 220
Leu Ser Leu Ala Phe Arg Asn Asp Ser Tyr Thr Leu Glu Ser Arg Ile
225 230 235 240
Asn Gln Ala Glu Arg Glu Arg Asn Leu Thr Glu Glu Asn Thr Glu Lys
245 250 255
Glu Leu Glu Asn Phe Lys Ala Ser Ile Thr Ser Ser Ala Ser Leu Trp
260 265 270
His His Cys Glu His Arg Glu Thr Tyr Gln Lys Leu Leu Glu Asp Ile
275 280 285
Ala Val Leu His Arg Leu Ala Ala Arg Leu Ser Ser Arg Ala Glu Val
290 295 300
Val Gly Ala Val Arg Gln Glu Lys Arg Met Ser Lys Ala Thr Glu Val
305 310 315 320
Met Met Gln Tyr Val Glu Asn Leu Lys Arg Thr Tyr Glu Lys Asp His
325 330 335
Ala Glu Leu Met Glu Phe Lys Lys Leu Ala Asn Gln Asn Ser Ser Arg
340 345 350
Ser Cys Gly Pro Ser Glu Asp Gly Val Pro Arg Thr Ala Arg Ser Met
355 360 365
Ser Leu Thr Leu Gly Lys Asn Met Pro Arg Arg Arg Val Ser Val Ala
370 375 380
Val Val Pro Lys Phe Asn Ala Leu Asn Leu Pro Gly Gln Thr Pro Ser
385 390 395 400
Ser Ser Ser Ile Pro Ser Leu Pro Ala Leu Ser Glu Ser Pro Asn Gly
405 410 415
Lys Gly Ser Leu Pro Val Thr Ser Ala Leu Pro Ala Leu Leu Glu Asn
420 425 430
Gly Lys Thr Asn Gly Asp Pro Asp Cys Glu Ala Ser Ala Pro Ala Leu
435 440 445

Thr Leu Ser Cys Leu Glu Glu Leu Ser Gln Glu Thr Lys Ala Arg Met

450

455

460

Glu Glu Glu Ala Tyr Ser Lys Gly Phe Gln Glu Gly Leu Lys Lys Thr

465

470

475

480

Lys Glu Leu Gln Asp Leu Lys Glu Glu Glu Glu Glu Gln Lys Ser Glu

485

490

495

Ser Pro Glu Glu Pro Glu Glu Val Glu Glu Thr Glu Glu Glu Glu Lys

500

505

510

Gly Pro Arg Ser Ser Lys Leu Glu Glu Leu Val His Phe Leu Gln Val

515

520

525

Met Tyr Pro Lys Leu Cys Gln His Trp Gln Val Ile Trp Met Met Ala

530

535

540

Ala Val Met Leu Val Leu Thr Val Val Leu Gly Leu Tyr Asn Ser Tyr

545

550

555

560

Asn Ser Cys Ala Glu Gln Ala Asp Gly Pro Leu Gly Arg Ser Thr Cys

565

570

575

Ser Ala Ala Gln Arg Asp Ser Trp Trp Ser Ser Gly Leu Gln His Glu

580

585

590

Gln Pro Thr Glu Gln

595

<210> 2541

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2541

Met His Ser Leu Pro Arg Ser Gly Ser Ile Arg Arg Thr His Ser Asp

1 5 10 15
Thr Gln Ala Thr Gly Trp Pro Pro Pro Gln Arg Ile Gly Asp Ser Pro
20 25 30
Gly Pro Ser Pro Ala Phe Leu Ser Cys Pro Pro Ser Leu Cys Gly Gly
35 40 45
Ala Ala Gln Thr Gly Asp Pro Val Ala Leu Pro His Gly Pro Glu Lys
50 55 60
Trp Val Trp Gly Gly Gly Leu Ser Pro Arg Asn Pro His Ser Trp Gly
65 70 75 80
Ile Lys Ala His Gly Leu Arg Pro Pro Trp Ala Pro Arg Leu Glu Arg
85 90 95
Cys Met Val Pro Glu Ser Glu Trp Ala Pro Trp Gln Pro Gln Leu Pro
100 105 110
Cys Glu Pro Lys Trp Leu Gly Ser Arg Lys Ser Lys Pro His Arg Glu
115 120 125
Ser Gly Leu Arg Gly Gly Gly Pro Ser Arg Cys Ala Lys Arg Gly Thr
130 135 140
His Ser Cys Gly Pro Arg Glu Ser Gly Gly Pro Asp Thr Cys His Leu
145 150 155 160
Pro Cys His

<210> 2542

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2542

Met Val Ala Gln Leu Glu Gln Gly Ser Ile Leu Leu Gln Gln Leu Gly
 1 5 10 15
 Asp Leu His Leu Arg Leu Ala Ser Thr Asp Val Ser Leu Val Val Glu
 20 25 30
 Ala Glu Leu Gly Gln Arg Val Val Leu Glu Glu Gly Pro Glu Asp Gly
 35 40 45
 Gln Asp Ala Phe Ala Cys Asp Val Val Gly Val Gln Val Glu Ala Gly
 50 55 60
 Asp Gly Leu Val Gly Leu Glu His Asp Gly Asn Gly Lys Gly His Val
 65 70 75 80
 Val Ile Gly Ser Arg Val Gly Gln Gly Glu Gln Leu Asn His Ser Val
 85 90 95
 Glu Leu Gln Ser Leu Ser Lys Pro Asp Gln Asp Leu
 100 105

<210> 2543

<211> 725

<212> PRT

<213> Homo sapiens

<400> 2543

Met Asp Thr Glu Phe Gly Ala Ser Ser Phe Phe His Ser Pro Ala Ser
 1 5 10 15
 Cys His Glu Ser His Ser Ser Leu Ser Pro Glu Ser Ser Ala Pro Gln
 20 25 30
 His Ser Ser Pro Ser Arg Ser Ala Leu Lys Leu Leu Thr Ser Val Glu
 35 40 45
 Val Asp Asn Ile Glu Pro Ser Ala Phe His Arg Gln Gly Leu Pro Lys

50	55	60
Ala Pro Gly Trp Thr Glu Lys Asn Ser His His Ser Trp Glu Pro Leu		
65	70	75
Asp Ala Pro Glu Gly Lys Leu Gln Gly Ser Arg Cys Asp Asn Ser Ser		
85	90	95
Cys Ser Lys Leu Pro Pro Gln Glu Gly Arg Gly Ile Ala Gln Glu Gln		
100	105	110
Leu Phe Gln Glu Lys Lys Asp Pro Ala Asn Pro Ser Pro Val Met Pro		
115	120	125
Gly Ile Ala Thr Ser Glu Arg Gly Asp Glu His Ser Leu Gly Cys Ser		
130	135	140
Pro Ser Asn Ser Ser Ala Gln Pro Ser Leu Pro Leu Tyr Arg Thr Cys		
145	150	155
His Pro Ile Met Pro Val Ala Ser Ser Phe Val Leu His Cys Pro Asp		
165	170	175
Pro Val Gln Lys Thr Asn Gln Cys Leu Gln Gly Gln Ser Leu Lys Thr		
180	185	190
Ser Leu Thr Leu Lys Val Asp Arg Gly Ser Glu Glu Thr Tyr Arg Pro		
195	200	205
Glu Phe Pro Ser Thr Lys Gly Leu Val Arg Ser Leu Ala Glu Gln Phe		
210	215	220
Gln Arg Met Gln Gly Val Ser Met Arg Asp Ser Thr Gly Phe Lys Asp		
225	230	235
Arg Ser Leu Ser Gly Ser Leu Arg Lys Asn Ser Ser Pro Ser Asp Ser		
245	250	255
Lys Pro Pro Phe Ser Gln Gly Gln Glu Lys Gly His Trp Pro Trp Ala		
260	265	270
Lys Gln Gln Ser Ser Leu Glu Gly Gly Asp Arg Pro Leu Ser Trp Glu		
275	280	285

Glu Ser Thr Glu His Ser Ser Leu Ala Leu Asn Ser Gly Leu Pro Asn
 290 295 300
 Gly Glu Thr Ser Ser Gly Gly Gln Pro Arg Leu Ala Glu Pro Asp Ile
 305 310 315 320
 Tyr Gln Glu Lys Leu Ser Gln Val Arg Asp Val Arg Ser Lys Asp Leu
 325 330 335
 Gly Ser Ser Thr Asp Leu Gly Thr Ser Leu Pro Leu Asp Ser Trp Val
 340 345 350
 Asn Ile Thr Arg Phe Cys Asp Ser Gln Leu Lys His Gly Ala Pro Arg
 355 360 365
 Pro Gly Met Lys Ser Ser Pro His Asp Ser His Thr Cys Val Thr Tyr
 370 375 380
 Pro Glu Arg Asn His Ile Leu Leu His Pro His Trp Asn Gln Asp Thr
 385 390 395 400
 Glu Gln Glu Thr Ser Glu Leu Glu Ser Leu Tyr Gln Ala Ser Leu Gln
 405 410 415
 Ala Ser Gln Ala Gly Cys Ser Gly Trp Gly Gln Gln Asp Thr Ala Trp
 420 425 430
 His Pro Leu Ser Gln Thr Gly Ser Ala Asp Gly Met Gly Arg Arg Leu
 435 440 445
 His Ser Ala His Asp Pro Gly Leu Ser Lys Thr Ser Thr Ala Glu Met
 450 455 460
 Glu His Gly Leu His Glu Ala Arg Thr Val Arg Thr Ser Gln Asp Ser
 465 470 475 480
 Ser Asn Val Arg Lys Pro Leu Glu Thr Gly His Arg Cys Ser Ser Ser
 485 490 495
 Ser Ser Leu Pro Val Ile His Asp Pro Ser Val Phe Leu Leu Gly Pro
 500 505 510
 Gln Leu Tyr Leu Pro Gln Pro Gln Phe Leu Ser Pro Asp Val Leu Met

515 520 525
Pro Thr Met Ala Gly Glu Pro Asn Arg Leu Pro Gly Thr Ser Arg Ser
530 535 540
Val Gln Gln Phe Leu Ala Met Cys Asp Arg Gly Glu Thr Ser Gln Gly
545 550 555 560
Ala Lys Tyr Thr Gly Arg Thr Leu Asn Tyr Gln Ser Leu Pro His Arg
565 570 575
Ser Arg Thr Asp Asn Ser Trp Ala Pro Trp Ser Glu Thr Asn Gln His
580 585 590
Ile Gly Thr Arg Phe Leu Thr Thr Pro Gly Cys Asn Pro Gln Leu Thr
595 600 605
Tyr Thr Ala Thr Leu Pro Glu Arg Ser Lys Gly Leu Gln Val Pro His
610 615 620
Thr Gln Ser Trp Ser Asp Leu Phe His Ser Pro Ser His Pro Pro Ile
625 630 635 640
Val His Pro Val Tyr Pro Pro Ser Ser Ser Leu His Val Pro Leu Arg
645 650 655
Ser Ala Trp Asn Ser Asp Pro Val Pro Gly Ser Arg Thr Pro Gly Pro
660 665 670
Arg Arg Val Asp Met Pro Pro Asp Asp Asp Trp Arg Gln Ser Ser Tyr
675 680 685
Ala Ser His Ser Gly His Arg Arg Thr Val Gly Glu Gly Phe Leu Phe
690 695 700
Val Leu Ser Asp Ala Pro Arg Arg Glu Gln Ile Arg Ala Arg Val Leu
705 710 715 720
Gln His Ser Gln Trp
725

<210> 2544

<211> 465

<212> PRT

<213> Homo sapiens

<400> 2544

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Met Val Gly Lys Ala Trp Pro Leu Thr His Ser Gln Gly Thr Gly Pro
  1             5             10             15
Trp Ala Pro Glu Gly His Arg Arg Glu Ala Ala Asp Pro Trp Trp Gln
             20             25             30
Arg Gln Gln Ala Arg Glu Gly Arg Met Gln Leu Gly Cys Ala Trp Val
             35             40             45
Ala Ala Arg Arg Gly Gly Gly Arg Lys Leu Ala Ser Trp Ser Leu Leu
             50             55             60
Ser Pro Gln Arg Gln Thr Asp Arg Gln Thr Asp Ser Trp Gln Glu Ala
             65             70             75             80
Ala Trp Gly Pro Gln Leu Leu Gln Gln Thr Ser Trp Leu Ser Glu Pro
             85             90             95
Pro Leu Gly Pro Ala Pro His Leu Ser Met Val Gln Ala His Gly Gly
             100            105            110
Arg Ser Arg Ala Gln Pro Leu Thr Leu Ser Leu Gly Ala Ala Met Thr
             115            120            125
Gln Pro Pro Pro Glu Lys Thr Pro Ala Lys Lys His Val Arg Leu Gln
             130            135            140
Glu Arg Arg Gly Ser Asn Val Ala Leu Met Leu Asp Val Arg Ser Leu
             145            150            155            160
Gly Ala Val Glu Pro Ile Cys Ser Val Asn Thr Pro Arg Glu Val Thr
             165            170            175
Leu His Phe Leu Arg Thr Ala Gly His Pro Leu Thr Arg Trp Ala Leu

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180	185	190
Gln Arg Gln Pro Pro Ser Pro Lys	Gln Leu Glu Glu Glu Phe Leu Lys	
195	200	205
Ile Pro Ser Asn Phe Val Ser Pro	Glu Asp Leu Asp Ile Pro Gly His	
210	215	220
Ala Ser Lys Asp Arg Tyr Lys Thr	Ile Leu Pro Asn Pro Gln Ser Arg	
225	230	235
Val Cys Leu Gly Arg Ala Gln Ser	Gln Glu Asp Gly Asp Tyr Ile Asn	
245	250	255
Ala Asn Tyr Ile Arg Gly Tyr Asp	Gly Lys Glu Lys Val Tyr Ile Ala	
260	265	270
Thr Gln Gly Pro Met Pro Asn Thr	Val Ser Asp Phe Trp Glu Met Val	
275	280	285
Trp Gln Glu Glu Val Ser Leu Ile	Val Met Leu Thr Gln Leu Arg Glu	
290	295	300
Gly Lys Glu Lys Cys Val His Tyr	Trp Pro Thr Glu Glu Glu Thr Tyr	
305	310	315
Gly Pro Phe Gln Ile Arg Ile Gln	Asp Met Lys Glu Cys Pro Glu Tyr	
325	330	335
Thr Val Arg Gln Leu Thr Ile Gln	Tyr Gln Glu Glu Arg Arg Ser Val	
340	345	350
Lys His Ile Leu Phe Ser Ala Trp	Pro Asp His Gln Thr Pro Glu Ser	
355	360	365
Ala Gly Pro Leu Leu Arg Leu Val	Ala Glu Val Glu Glu Ser Pro Glu	
370	375	380
Thr Ala Ala His Pro Gly Pro Ile	Val Val His Cys Ser Ala Gly Ile	
385	390	395
Gly Arg Thr Gly Cys Phe Ile Ala	Thr Arg Ile Gly Cys Gln Gln Leu	
405	410	415

Lys Ala Arg Gly Glu Val Asp Ile Leu Gly Ile Val Cys Gln Leu Arg

420

425

430

Leu Asp Arg Gly Gly Met Ile Gln Thr Ala Glu Gln Tyr Gln Phe Leu

435

440

445

His His Thr Leu Ala Leu Tyr Ala Gly Gln Leu Pro Glu Glu Pro Ser

450

455

460

Pro

465

<210> 2545

<211> 654

<212> PRT

<213> Homo sapiens

<400> 2545

Met Lys Lys Val Phe Asp Val Tyr Leu Cys Phe Leu Gln Lys His Gln

1

5

10

15

Ser Glu Thr Ala Leu Lys Asn Val Phe Thr Ala Leu Arg Ser Leu Ile

20

25

30

Tyr Lys Phe Pro Ser Thr Phe Tyr Glu Gly Arg Ala Asp Met Cys Ala

35

40

45

Ala Leu Cys Tyr Glu Ile Leu Lys Cys Cys Asn Ser Lys Leu Ser Ser

50

55

60

Ile Arg Thr Glu Ala Ser Gln Leu Leu Tyr Phe Leu Met Arg Asn Asn

65

70

75

80

Phe Asp Tyr Thr Gly Lys Lys Ser Phe Val Arg Thr His Leu Gln Val

85

90

95

Ile Ile Ser Val Ser Gln Leu Ile Ala Asp Val Val Gly Ile Gly Gly

100	105	110	
Thr Arg Phe Gln Gln Ser Leu Ser Ile Ile Asn Asn Cys Ala Asn Ser			
115	120	125	
Asp Arg Leu Ile Lys His Thr Ser Phe Ser Ser Asp Val Lys Asp Leu			
130	135	140	
Thr Lys Arg Ile Arg Thr Val Leu Met Ala Thr Ala Gln Met Lys Glu			
145	150	155	160
His Glu Asn Asp Pro Glu Met Leu Val Asp Leu Gln Tyr Ser Leu Ala			
165	170	175	
Lys Ser Tyr Ala Ser Thr Pro Glu Leu Arg Lys Thr Trp Leu Asp Ser			
180	185	190	
Met Ala Arg Ile His Val Lys Asn Gly Asp Leu Ser Glu Ala Ala Met			
195	200	205	
Cys Tyr Val His Val Thr Ala Leu Val Ala Glu Tyr Leu Thr Arg Lys			
210	215	220	
Gly Val Phe Arg Gln Gly Cys Thr Ala Phe Arg Val Ile Thr Pro Asn			
225	230	235	240
Ile Asp Glu Glu Ala Ser Met Ile Glu Asp Val Gly Met Gln Asp Val			
245	250	255	
His Phe Asn Glu Asp Val Leu Met Glu Leu Leu Glu Gln Cys Ala Asp			
260	265	270	
Gly Leu Trp Lys Ala Glu Arg Tyr Glu Leu Ile Ala Asp Ile Tyr Lys			
275	280	285	
Leu Ile Ile Pro Ile Tyr Glu Lys Arg Arg Asp Phe Glu Arg Leu Ala			
290	295	300	
His Leu Tyr Asp Thr Leu His Arg Ala Tyr Ser Lys Val Thr Glu Val			
305	310	315	320
Met His Ser Gly Arg Arg Leu Leu Gly Thr Tyr Phe Arg Val Ala Phe			
325	330	335	

Phe Gly Gln Gln Tyr Gln Phe Thr Asp Ser Glu Thr Asp Val Glu Gly
340 345 350
Phe Phe Glu Asp Glu Asp Gly Lys Glu Tyr Ile Tyr Lys Glu Pro Lys
355 360 365
Leu Thr Pro Leu Ser Glu Ile Ser Gln Arg Leu Leu Lys Leu Tyr Ser
370 375 380
Asp Lys Phe Gly Ser Glu Asn Val Lys Met Ile Gln Asp Ser Gly Lys
385 390 395 400
Val Asn Pro Lys Asp Leu Asp Ser Lys Tyr Ala Tyr Ile Gln Val Thr
405 410 415
His Val Ile Pro Phe Phe Asp Glu Lys Glu Leu Gln Glu Arg Lys Thr
420 425 430
Glu Phe Glu Arg Ser His Asn Ile Arg Arg Phe Met Phe Glu Met Pro
435 440 445
Phe Thr Gln Thr Gly Lys Arg Gln Gly Gly Val Glu Glu Gln Cys Lys
450 455 460
Arg Arg Thr Ile Leu Thr Ala Ile His Cys Phe Pro Tyr Val Lys Lys
465 470 475 480
Arg Ile Pro Val Met Tyr Gln His His Thr Asp Leu Asn Pro Ile Glu
485 490 495
Val Ala Ile Asp Glu Met Ser Lys Lys Val Ala Glu Leu Arg Gln Leu
500 505 510
Cys Ser Ser Ala Glu Val Asp Met Ile Lys Leu Gln Leu Lys Leu Gln
515 520 525
Gly Ser Val Ser Val Gln Val Asn Ala Gly Pro Leu Ala Tyr Ala Arg
530 535 540
Ala Phe Leu Asp Asp Thr Asn Thr Lys Arg Tyr Pro Asp Asn Lys Val
545 550 555 560
Lys Leu Leu Lys Glu Val Phe Arg Gln Phe Val Glu Ala Cys Gly Gln

	565		570		575										
Ala	Leu	Ala	Val	Asn	Glu	Arg	Leu	Ile	Lys	Glu	Asp	Gln	Leu	Glu	Tyr
	580		585		590										
Gln	Glu	Glu	Met	Lys	Ala	Asn	Tyr	Arg	Glu	Met	Ala	Lys	Glu	Leu	Ser
	595		600		605										
Glu	Ile	Met	His	Glu	Gln	Ile	Cys	Pro	Leu	Glu	Glu	Lys	Thr	Ser	Val
	610		615		620										
Leu	Pro	Asn	Ser	Leu	His	Ile	Phe	Asn	Ala	Ile	Ser	Gly	Thr	Pro	Thr
625			630		635									640	
Ser	Thr	Met	Val	His	Gly	Met	Thr	Ser	Ser	Ser	Ser	Val	Val		
	645		650												

<210> 2546

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2546

Met	Glu	Arg	Leu	His	Tyr	Ile	His	His	Asn	Glu	Thr	Val	Ser	Gln	Gln
1			5						10					15	
Ile	Gly	Glu	Val	Leu	Tyr	Asn	Ala	Ala	Pro	Leu	Ser	Ile	Trp	Trp	Gln
			20						25					30	
Ile	Pro	Gln	Tyr	Leu	Leu	Ile	Gly	Ile	Ser	Glu	Ile	Phe	Ala	Ser	Ile
		35					40						45		
Pro	Gly	Leu	Glu	Phe	Ala	Tyr	Ser	Glu	Ala	Pro	Arg	Ser	Met	Gln	Gly
	50					55					60				
Ala	Ile	Met	Gly	Ile	Phe	Phe	Cys	Leu	Ser	Gly	Val	Gly	Ser	Leu	Leu
65					70					75				80	

Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly Trp Leu His
 85 90 95
 Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met Asp Leu Tyr
 100 105 110
 Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu Leu Phe Val
 115 120 125
 Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro Ala Ser His
 130 135 140
 Ser Arg Phe Ser Arg Asp Arg Gly
 145 150

<210> 2547

<211> 904

<212> PRT

<213> Homo sapiens

<400> 2547

Met Glu Trp Gly Ser Glu Ser Ala Ala Val Arg Arg His Arg Val Gly
 1 5 10 15
 Val Glu Arg Arg Glu Gly Ala Ala Ala Ala Pro Pro Pro Glu Arg Glu
 20 25 30
 Ala Arg Ala Gln Glu Pro Leu Val Asp Gly Cys Ser Gly Gly Gly Arg
 35 40 45
 Thr Arg Lys Arg Ser Pro Gly Gly Ser Gly Gly Ala Ser Arg Gly Ala
 50 55 60
 Gly Thr Gly Leu Ser Glu Val Arg Ala Ala Leu Gly Leu Ala Leu Tyr
 65 70 75 80
 Leu Ile Ala Leu Arg Thr Leu Val Gln Leu Ser Leu Gln Gln Leu Val

	85	90	95
Leu Arg Gly Ala Ala Gly His Arg Gly Glu Phe Asp Ala Leu Gln Ala			
100	105	110	
Arg Asp Tyr Leu Glu His Ile Thr Ser Ile Gly Pro Arg Thr Thr Gly			
115	120	125	
Ser Pro Glu Asn Glu Ile Leu Thr Val His Tyr Leu Leu Glu Gln Ile			
130	135	140	
Lys Leu Ile Glu Val Gln Ser Asn Ser Leu His Lys Ile Ser Val Asp			
145	150	155	160
Val Gln Arg Pro Thr Gly Ser Phe Ser Ile Asp Phe Leu Gly Gly Phe			
165	170	175	
Thr Ser Tyr Tyr Asp Asn Ile Thr Asn Val Val Val Lys Leu Glu Pro			
180	185	190	
Arg Asp Gly Ala Gln His Ala Val Leu Ala Asn Cys His Phe Asp Ser			
195	200	205	
Val Ala Asn Ser Pro Gly Ala Ser Asp Asp Ala Val Ser Cys Ser Val			
210	215	220	
Met Leu Glu Val Leu Arg Val Leu Ser Thr Ser Ser Glu Ala Leu His			
225	230	235	240
His Ala Val Ile Phe Leu Phe Asn Gly Ala Glu Glu Asn Val Leu Gln			
245	250	255	
Ala Ser His Gly Phe Ile Thr Gln His Pro Trp Ala Ser Leu Ile Arg			
260	265	270	
Ala Phe Ile Asn Leu Glu Ala Ala Gly Val Gly Gly Lys Glu Leu Val			
275	280	285	
Phe Gln Thr Gly Pro Glu Asn Pro Trp Leu Val Gln Ala Tyr Val Ser			
290	295	300	
Ala Ala Lys His Pro Phe Ala Ser Val Val Ala Gln Glu Val Phe Gln			
305	310	315	320

Ser Gly Ile Ile Pro Ser Asp Thr Asp Phe Arg Ile Tyr Arg Asp Phe
325 330 335
Gly Asn Ile Pro Gly Ile Asp Leu Ala Phe Ile Glu Asn Gly Tyr Ile
340 345 350
Tyr His Thr Lys Tyr Asp Thr Ala Asp Arg Ile Leu Thr Asp Ser Ile
355 360 365
Gln Arg Ala Gly Asp Asn Ile Leu Ala Val Leu Lys His Leu Ala Thr
370 375 380
Ser Asp Met Leu Ala Ala Ala Ser Lys Tyr Arg His Gly Asn Met Val
385 390 395 400
Phe Phe Asp Val Leu Gly Leu Phe Val Ile Ala Tyr Pro Ser Arg Ile
405 410 415
Gly Ser Ile Ile Asn Tyr Met Val Val Met Gly Val Val Leu Tyr Leu
420 425 430
Gly Lys Lys Phe Leu Gln Pro Lys His Lys Thr Gly Asn Tyr Lys Lys
435 440 445
Asp Phe Leu Cys Gly Leu Gly Ile Thr Leu Ile Ser Trp Phe Thr Ser
450 455 460
Leu Val Thr Val Leu Ile Ile Ala Val Phe Ile Ser Leu Ile Gly Gln
465 470 475 480
Ser Leu Ser Trp Tyr Asn His Phe Tyr Val Ser Val Cys Leu Tyr Gly
485 490 495
Thr Ala Thr Val Ala Lys Ile Ile Leu Ile His Thr Leu Ala Lys Arg
500 505 510
Phe Tyr Tyr Met Asn Ala Ser Ala Gln Tyr Leu Gly Glu Val Phe Phe
515 520 525
Asp Ile Ser Leu Phe Val His Cys Cys Phe Leu Val Thr Leu Thr Tyr
530 535 540
Gln Gly Leu Cys Ser Ala Phe Ile Ser Ala Val Trp Val Ala Phe Pro

545 550 555 560
Leu Leu Thr Lys Leu Cys Val His Lys Asp Phe Lys Gln His Gly Ala
 565 570 575
Gln Gly Lys Phe Ile Ala Phe Tyr Leu Leu Gly Met Phe Ile Pro Tyr
 580 585 590
Leu Tyr Ala Leu Tyr Leu Ile Trp Ala Val Phe Glu Met Phe Thr Pro
 595 600 605
Ile Leu Gly Arg Ser Gly Ser Glu Ile Pro Pro Asp Val Val Leu Ala
 610 615 620
Ser Ile Leu Ala Gly Cys Thr Met Ile Leu Ser Ser Tyr Phe Ile Asn
625 630 635 640
Phe Ile Tyr Leu Ala Lys Ser Thr Lys Lys Thr Met Leu Thr Leu Thr
 645 650 655
Leu Val Cys Ala Ile Thr Phe Leu Leu Val Cys Ser Gly Thr Phe Phe
 660 665 670
Pro Tyr Ser Ser Asn Pro Ala Asn Pro Lys Pro Lys Arg Val Phe Leu
 675 680 685
Gln His Met Thr Arg Thr Phe His Asp Leu Glu Gly Asn Ala Val Lys
 690 695 700
Arg Asp Ser Gly Ile Trp Ile Asn Gly Phe Asp Tyr Thr Gly Ile Ser
705 710 715 720
His Ile Thr Pro His Ile Pro Glu Ile Asn Asp Ser Ile Arg Ala His
 725 730 735
Cys Glu Glu Asn Ala Pro Leu Cys Gly Phe Pro Trp Tyr Leu Pro Val
 740 745 750
His Phe Leu Ile Arg Lys Asn Trp Tyr Leu Pro Ala Pro Glu Val Ser
 755 760 765
Pro Arg Asn Pro Pro His Phe Arg Leu Ile Ser Lys Glu Gln Thr Pro
 770 775 780

Trp Asp Ser Ile Lys Leu Thr Phe Glu Ala Thr Gly Pro Ser His Met
 785 790 795 800
 Ser Phe Tyr Val Arg Ala His Lys Gly Ser Thr Leu Ser Gln Trp Ser
 805 810 815
 Leu Gly Asn Gly Thr Pro Val Thr Ser Lys Gly Gly Asp Tyr Phe Val
 820 825 830
 Phe Tyr Ser His Gly Leu Gln Ala Ser Ala Trp Gln Phe Trp Ile Glu
 835 840 845
 Val Gln Val Ser Glu Glu His Pro Glu Gly Met Val Thr Val Ala Ile
 850 855 860
 Ala Ala His Tyr Leu Ser Gly Glu Asp Lys Arg Ser Pro Gln Leu Asp
 865 870 875 880
 Ala Leu Lys Glu Lys Phe Pro Asp Trp Thr Phe Pro Ser Ala Trp Val
 885 890 895
 Cys Thr Tyr Asp Leu Phe Val Phe
 900

<210> 2548

<211> 262

<212> PRT

<213> Homo sapiens

<400> 2548

Met Leu Ala Gln Gly Tyr Pro Ala Tyr Thr Thr Ser Cys Ala Trp Leu
 1 5 10 15
 Gly Tyr Ser Asp Asp Thr Leu Lys Gln Leu Cys Ala Gln Ala Leu Lys
 20 25 30
 Asp Gly Trp Thr Arg Phe Lys Val Lys Val Gly Ala Asp Leu Gln Asp

35	40	45
Asp Met Arg Arg Cys Gln Ile Ile Arg Asp Met Ile Gly Pro Glu Lys		
50	55	60
Thr Leu Met Met Asp Ala Asn Gln Arg Trp Asp Val Pro Glu Ala Val		
65	70	75
Glu Trp Met Ser Lys Leu Ala Lys Phe Lys Pro Leu Trp Ile Glu Glu		
85	90	95
Pro Thr Ser Pro Asp Asp Ile Leu Gly His Ala Thr Ile Ser Lys Ala		
100	105	110
Leu Val Pro Leu Gly Ile Gly Ile Ala Thr Gly Glu Gln Cys His Asn		
115	120	125
Arg Val Ile Phe Lys Gln Leu Leu Gln Ala Lys Ala Leu Gln Phe Leu		
130	135	140
Gln Ile Asp Ser Cys Arg Leu Gly Ser Val Asn Glu Asn Leu Ser Val		
145	150	155
Leu Leu Met Ala Lys Lys Phe Glu Ile Pro Val Cys Pro His Ala Gly		
165	170	175
Gly Val Gly Leu Cys Glu Leu Val Gln His Leu Ile Ile Phe Asp Tyr		
180	185	190
Ile Ser Val Ser Ala Ser Leu Glu Asn Arg Val Cys Glu Tyr Val Asp		
195	200	205
His Leu His Glu His Phe Lys Tyr Pro Val Met Ile Gln Arg Ala Ser		
210	215	220
Tyr Met Pro Pro Lys Asp Pro Gly Tyr Ser Thr Glu Met Lys Glu Glu		
225	230	235
Ser Val Lys Lys His Gln Tyr Pro Asp Gly Glu Val Trp Lys Lys Leu		
245	250	255
Leu Pro Ala Gln Glu Asn		
260		

<210> 2549

<211> 198

<212> PRT

<213> Homo sapiens

<400> 2549

Met Ser Ser Leu Tyr Ile Leu Asp Ile Asn Pro Leu Leu Asp Lys Arg
 1 5 10 15
 Phe Phe Ser Ile Phe Ser His Ser Val Asp Cys Leu Phe Ile Leu Leu
 20 25 30
 Phe Pro Leu Leu Cys Arg Ser Phe Phe Val Trp Phe Ser Ser Ile Cys
 35 40 45
 Leu Phe Leu Leu Leu Leu Pro Val Leu Leu Val Ser Phe Thr Lys Gln
 50 55 60
 Thr Asn Arg Ile Ile Ala Lys Thr Asn Val Met Glu Leu Phe His Cys
 65 70 75 80
 Phe Leu Leu Val Leu Gln Phe His Val Leu His Leu Ser Leu Phe Thr
 85 90 95
 Phe Phe Phe Phe Gly Thr Glu Ser Pro Ser Val Ala Gln Ala Gly Val
 100 105 110
 Gln Trp Cys Met Ile Leu Thr His Cys Asn Leu His Leu Leu Gly Ser
 115 120 125
 Ser Asp Ser Pro Ala Ser Ala Ser Arg Val Gly Gly Ile Ile Gly Met
 130 135 140
 Cys His Cys Ala Arg Phe Ile Phe Val Phe Leu Ile Glu Met Gly Phe
 145 150 155 160
 His Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Ala Ser

165 170 175
 Ala Ser Gln Gly Thr Arg Ile Thr Gly Lys Ser His Cys Ala Trp Pro
 180 185 190
 Leu Leu Thr Ile Leu Asn
 195

<210> 2550

<211> 441

<212> PRT

<213> Homo sapiens

<400> 2550

Met Gly Ser Gln Ala Arg Pro His Ser Thr Leu Gln Gly Phe Gly Tyr
 1 5 10 15
 Ser Lys Glu His Gly Arg Thr Gly Ser Ala Gly Glu Ala Phe Leu Ser
 20 25 30
 Thr Ile Gln Lys Ala Ala Glu Val Val Ala Ser Ala Met Arg Pro Gly
 35 40 45
 Pro Glu Ser Pro Ser Thr Arg Arg Leu Leu Pro Arg Gly Asp Thr Tyr
 50 55 60
 Gln Pro Ala Met Met Pro Ser Ala Ser His Gly Pro Pro Thr Leu Gly
 65 70 75 80
 Asn Leu Leu Pro Gly Ala Ile Pro Gly Pro Arg Ala Val Arg His Gln
 85 90 95
 Pro Gly Gln Ala Gly Gly Gly Trp Asp Glu Leu Asp Ser Gly Pro Ser
 100 105 110
 Ser Gln Asn Ser Ser Gln Asn Ser Asp Leu Ser Arg Val Ser Asp Ser
 115 120 125

Gly Ser His Ser Gly Ser Asp Ser His Ser Gly Ala Ser Arg Glu Pro
130 135 140
Gly Asp Leu Ala Glu Arg Val Glu Val Val Ala Leu Ser Asp Cys Gln
145 150 155 160
Gln Glu Leu Ser Leu Val Arg Thr Val Thr Arg Gly Pro Arg Ala Phe
165 170 175
Leu Ser Arg Glu Glu Ala Gln His Phe Ile Lys Ala Cys Gly Leu Leu
180 185 190
Asn Cys Glu Ala Val Leu Gln Leu Leu Thr Cys His Leu Arg Gly Thr
195 200 205
Ser Glu Cys Thr Gln Leu Arg Ala Leu Cys Ala Ile Ala Ser Leu Gly
210 215 220
Ser Ser Asp Leu Leu Pro Gln Glu His Ile Leu Leu Arg Thr Arg Pro
225 230 235 240
Trp Leu Gln Glu Leu Ser Met Gly Ser Pro Gly Pro Val Thr Asn Lys
245 250 255
Ala Thr Lys Ile Leu Arg His Phe Glu Ala Ser Cys Gly Gln Leu Ser
260 265 270
Pro Ala Arg Gly Thr Ser Ala Glu Pro Gly Pro Thr Ala Ala Leu Pro
275 280 285
Gly Pro Ser Asp Leu Leu Thr Asp Ala Val Pro Leu Pro Gly Ser Gln
290 295 300
Val Phe Leu Gln Pro Leu Ser Ser Thr Pro Val Ser Ser Arg Ser Pro
305 310 315 320
Ala Pro Ser Ser Gly Met Pro Ser Ser Pro Val Pro Thr Pro Pro Pro
325 330 335
Asp Ala Ser Pro Ile Pro Ala Pro Gly Asp Pro Ser Glu Ala Glu Ala
340 345 350
Arg Leu Ala Glu Ser Arg Arg Trp Arg Pro Glu Arg Ile Pro Gly Gly

355 360 365
 Thr Asp Ser Pro Lys Arg Gly Pro Ser Ser Cys Ala Trp Ser Arg Asp
 370 375 380
 Ser Leu Phe Ala Gly Met Glu Leu Val Ala Cys Pro Arg Leu Val Gly
 385 390 395 400
 Ala Gly Ala Ala Ala Gly Glu Ser Cys Pro Asp Ala Pro Arg Ala Pro
 405 410 415
 Gln Thr Ser Ser Gln Arg Thr Ala Ala Lys Glu Pro Pro Gly Ser Glu
 420 425 430
 Pro Ser Ala Phe Ala Phe Leu Asn Ala
 435 440

<210> 2551

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2551

Met Pro Ala Leu Pro Ala Ala Pro Leu Glu Ala Gly Glu Ala Ser Ile
 1 5 10 15
 Ile His Lys Ile Gly His Ser Val Pro His Pro Gln Glu Ala Leu Ala
 20 25 30
 Leu Leu Ser Pro Gly Thr Pro Asp Ser Pro Ala Val Ile Thr Glu Pro
 35 40 45
 Arg Cys Asp Leu Glu Glu Asn Gly Val Glu Pro Gly Val Ser Ser Val
 50 55 60
 Ala Gly Arg Val Thr Leu Ser Leu Pro Ser Pro Ala Ser Arg Lys Cys
 65 70 75 80

Pro Pro His Gln Ser Ala Ser Gly Asn His Trp His Arg Gly Gly Phe
 85 90 95
 Gly Glu Trp Glu Met Thr Glu Ala Leu Arg Arg Arg Lys Arg Ser Ile
 100 105 110
 Trp Gly Gly Arg Ser Pro Trp Arg Pro Ser Asp Thr Val Cys Arg Trp
 115 120 125
 Leu Ser Phe
 130

<210> 2552

<211> 233

<212> PRT

<213> Homo sapiens

<400> 2552

Met Ser Ser Gln Gly Gln Ser Leu Val Pro Met Arg Ser Ser Gln Arg
 1 5 10 15
 Lys Arg Pro Ala Arg Glu Val Ser Ala Gly Gly His Val His Val Leu
 20 25 30
 Trp Cys Pro Gln Arg Leu Pro Ser Cys Gly Ile Ile Thr Glu Thr Thr
 35 40 45
 Pro Cys Ser Met Thr Phe Leu Pro Val Val Ser Leu Gln Arg Gln Ser
 50 55 60
 His Leu Asp Asp Val Ile Ser Asn Ser Lys Ala Ser Phe Gly Ile Ile
 65 70 75 80
 Ala Met Gly Lys Ile Phe Ser Pro Cys Val Phe Ala Ala Glu Lys Met
 85 90 95
 Pro Leu Ser Tyr Asp Val Ile Ile Thr Asp Lys Ala Ile Phe Leu Gly

100	105	110	
His Val Ala Gly Glu Asn Ala Ser Pro Ile Val Ser Ser Leu Asp Ile			
115	120	125	
Arg Ser Pro Phe His Asn Ile Ile Thr Gly Thr Leu Pro Pro Ser Cys			
130	135	140	
Asp Ala Ile Thr Arg Glu Gly Ala Leu Pro Tyr Asp Val Ile Arg Gly			
145	150	155	160
Thr Val Pro Leu Pro Val Met Ser Ser Pro Glu Met Thr Thr His Ser			
165	170	175	
Gly Thr Ser Pro Gly Gly Gly Pro Phe Cys Asp Val Ala Gln Met Leu			
180	185	190	
Cys Ala Leu Arg Trp His Lys Glu Met Pro Pro Leu Leu Pro Pro Cys			
195	200	205	
Cys Arg Arg Gln Gly Arg Pro Arg Val Gln Asp His Pro Arg Glu Asp			
210	215	220	
Ala Arg Glu Gln Arg Gly Ala Leu Ser			
225	230		

<210> 2553

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2553

Met Thr Gln Gly Ser Glu Thr Leu Pro Ser Pro Leu Pro Val Pro Ser			
1	5	10	15
Ser Ala Cys Pro Leu Pro Asn Arg Leu Pro Thr Pro Tyr Phe Ala Cys			
20	25	30	

Val Leu Pro Ile Pro Gln Val Cys Gln Lys Thr Ala Glu Ile Ser Leu
35 40 45
Leu Lys Gln Gln Leu Arg Glu Ala Gln Ala Glu Leu Ala Gln Lys Leu
50 55 60
Ala Glu Ile Phe Ser Leu Lys Thr Gln Leu Arg Gly Ser Arg Ala Gln
65 70 75 80
Ala Gln Ala Gln Asp Ala Glu Leu Val Arg Leu Arg Glu Ala Val Arg
85 90 95
Ser Leu Gln Glu Gln Ala Pro Arg Glu Glu Ala Pro Gly Ser Cys Glu
100 105 110
Thr Asp Asp Cys Lys Ser Arg Gly Leu Leu Gly Glu Ala Gly Gly Ser
115 120 125
Glu Ala Arg Asp Ser Ala Glu Gln Leu Arg Ala Glu Leu Leu Gln Glu
130 135 140
Arg Leu Arg Gly Gln Glu Gln Ala Leu Arg Phe Glu Gln Glu Arg Arg
145 150 155 160
Thr Trp Gln Glu Glu Lys Glu Arg Val Leu Arg Tyr Gln Arg Glu Ile
165 170 175
Gln Gly Gly Tyr Met Asp Met Tyr Arg Arg Asn Gln Ala Leu Glu Gln
180 185 190
Glu Leu Arg Ala Leu Arg Glu Pro Pro Thr Pro Trp Ser Pro Arg Leu
195 200 205
Glu Ser Ser Lys Ile
210

<210> 2554

<211> 178

<212> PRT

<213> Homo sapiens

<400> 2554

Met Arg Gly Thr Trp Trp Arg Leu Lys Asn Leu Glu Thr Pro Glu Thr
 1 5 10 15
 Leu Asp Pro Gln Arg Lys Cys Tyr Ser Arg Cys Pro Cys Cys Gly Cys
 20 25 30
 Glu Asp Val Cys Cys Thr Ser Gln Phe Pro Ala Gln Asp Lys Asp Ser
 35 40 45
 Glu Arg His Leu Pro Gly Val Ser Gly Asp Gly Thr Gln Trp Arg Ala
 50 55 60
 Cys Gly Gln Leu Pro Gln Val Glu Gly Ile Val Ala Gln Leu Leu Val
 65 70 75 80
 Pro Gln Ala Gly Pro Asp Leu Arg Ala Phe Leu Pro Met Ala Gln Thr
 85 90 95
 Ser Glu Leu His Val Gly Asp Ala Gln Gly Gln Pro Phe Ser Leu Pro
 100 105 110
 His His Val Pro Ala Thr Ala Gln Asp Ser Cys Ser Leu Glu Gly Gly
 115 120 125
 Ser Ser Pro Pro His Leu Gly Ala Leu Pro Gly Pro Gly Phe Pro Trp
 130 135 140
 Leu Phe Leu Gln Leu Leu Ala Gln Thr Val Gly Arg Thr Ala Arg Gly
 145 150 155 160
 Ala Val Gly Leu Gly Gly Ala Arg Ser Ala Cys Ser His Pro His His
 165 170 175
 Gly Val

<210> 2555

<211> 905

<212> PRT

<213> Homo sapiens

<400> 2555

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Met Thr Ser Ala Thr Ser Pro Ile Ile Leu Lys Trp Asp Pro Lys Ser
  1           5           10           15
Leu Glu Ile Arg Thr Leu Thr Val Glu Arg Leu Leu Glu Pro Leu Val
           20           25           30
Thr Gln Val Thr Thr Leu Val Asn Thr Ser Asn Lys Gly Pro Ser Gly
           35           40           45
Lys Lys Lys Gly Arg Ser Lys Lys Ala His Val Leu Ala Ala Ser Val
           50           55           60
Glu Gln Ala Thr Gln Asn Phe Leu Glu Lys Gly Glu Gln Ile Ala Lys
           65           70           75           80
Glu Ser Gln Asp Leu Lys Glu Glu Leu Val Ala Ala Val Glu Asp Val
           85           90           95
Arg Lys Gln Gly Glu Thr Met Arg Ile Ala Ser Ser Glu Phe Ala Asp
           100          105          110
Asp Pro Cys Ser Ser Val Lys Arg Gly Thr Met Val Arg Ala Ala Arg
           115          120          125
Ala Leu Leu Ser Ala Val Thr Arg Leu Leu Ile Leu Ala Asp Met Ala
           130          135          140
Asp Val Met Arg Leu Leu Ser His Leu Lys Ile Val Glu Glu Ala Leu
           145          150          155          160
Glu Ala Val Lys Asn Ala Thr Asn Glu Gln Asp Leu Ala Asn Arg Phe
           165          170          175
Lys Glu Phe Gly Lys Glu Met Val Lys Leu Asn Tyr Val Ala Ala Arg

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180 185 190
Arg Gln Gln Glu Leu Lys Asp Pro His Cys Arg Asp Glu Met Ala Ala
195 200 205
Ala Arg Gly Ala Leu Lys Lys Asn Ala Thr Met Leu Tyr Thr Ala Ser
210 215 220
Gln Ala Phe Leu Arg His Pro Asp Val Ala Ala Thr Arg Ala Asn Arg
225 230 235 240
Asp Tyr Val Phe Lys Gln Val Gln Glu Ala Ile Ala Gly Ile Ser Asn
245 250 255
Ala Ala Gln Ala Thr Ser Pro Thr Asp Glu Ala Lys Gly His Thr Gly
260 265 270
Ile Gly Glu Leu Ala Ala Ala Leu Asn Glu Phe Asp Asn Lys Ile Ile
275 280 285
Leu Asp Pro Met Thr Phe Ser Glu Ala Arg Phe Arg Pro Ser Leu Glu
290 295 300
Glu Arg Leu Glu Ser Ile Ile Ser Gly Ala Ala Leu Met Ala Asp Ser
305 310 315 320
Ser Cys Thr Arg Asp Asp Arg Arg Glu Arg Ile Val Ala Glu Cys Asn
325 330 335
Ala Val Arg Gln Ala Leu Gln Asp Leu Leu Ser Glu Tyr Met Asn Asn
340 345 350
Thr Gly Arg Lys Glu Lys Gly Asp Pro Leu Asn Ile Ala Ile Asp Lys
355 360 365
Met Thr Lys Lys Thr Arg Asp Leu Arg Arg Gln Leu Arg Lys Ala Val
370 375 380
Met Asp His Ile Ser Asp Ser Phe Leu Glu Thr Asn Val Pro Leu Leu
385 390 395 400
Val Leu Ile Glu Ala Ala Lys Ser Gly Asn Glu Lys Glu Val Lys Glu
405 410 415

Tyr Ala Gln Val Phe Arg Glu His Ala Asn Lys Leu Val Glu Val Ala
420 425 430
Asn Leu Ala Cys Ser Ile Ser Asn Asn Glu Glu Gly Val Lys Leu Val
435 440 445
Arg Met Ala Ala Thr Gln Ile Asp Ser Leu Cys Pro Gln Val Ile Asn
450 455 460
Ala Ala Leu Thr Leu Ala Ala Arg Pro Gln Ser Lys Val Ala Gln Asp
465 470 475 480
Asn Met Asp Val Phe Lys Asp Gln Trp Glu Lys Gln Val Arg Val Leu
485 490 495
Thr Glu Ala Val Asp Asp Ile Thr Ser Val Asp Asp Phe Leu Ser Val
500 505 510
Ser Glu Asn His Ile Leu Glu Asp Val Asn Lys Cys Val Ile Ala Leu
515 520 525
Gln Glu Gly Asp Val Asp Thr Leu Asp Arg Thr Ala Gly Ala Ile Arg
530 535 540
Gly Arg Ala Ala Arg Val Ile His Ile Ile Asn Ala Glu Met Glu Asn
545 550 555 560
Tyr Glu Ala Gly Val Tyr Thr Glu Lys Val Leu Glu Ala Thr Lys Leu
565 570 575
Leu Ser Glu Thr Val Met Pro Arg Phe Ala Glu Gln Val Glu Val Ala
580 585 590
Ile Glu Ala Leu Ser Ala Asn Val Pro Gln Pro Phe Glu Glu Asn Glu
595 600 605
Phe Ile Asp Ala Ser Arg Leu Val Tyr Asp Gly Val Arg Asp Ile Arg
610 615 620
Lys Ala Val Leu Met Ile Arg Thr Pro Glu Glu Leu Glu Asp Asp Ser
625 630 635 640
Asp Phe Glu Gln Glu Asp Tyr Asp Val Arg Ser Arg Thr Ser Val Gln

645	650	655
Thr Glu Asp Asp Gln Leu Ile Ala Gly Gln Ser Ala Arg Ala Ile Met		
660	665	670
Ala Gln Leu Pro Gln Glu Glu Lys Ala Lys Ile Ala Glu Gln Val Glu		
675	680	685
Ile Phe His Gln Glu Lys Ser Lys Leu Asp Ala Glu Val Ala Lys Trp		
690	695	700
Asp Asp Ser Gly Asn Asp Ile Ile Val Leu Ala Lys Gln Met Cys Met		
705	710	715
Ile Met Met Glu Met Thr Asp Phe Thr Arg Gly Lys Gly Pro Leu Lys		
725	730	735
Asn Thr Ser Asp Val Ile Asn Ala Ala Lys Lys Ile Ala Glu Ala Gly		
740	745	750
Ser Arg Met Asp Lys Leu Ala Arg Ala Val Ala Asp Gln Cys Pro Asp		
755	760	765
Ser Ala Cys Lys Gln Asp Leu Leu Ala Tyr Leu Gln Arg Ile Ala Leu		
770	775	780
Tyr Cys His Gln Leu Asn Ile Cys Ser Lys Val Lys Ala Glu Val Gln		
785	790	795
Asn Leu Gly Gly Glu Leu Ile Val Ser Gly Leu Asp Ser Ala Thr Ser		
805	810	815
Leu Ile Gln Ala Ala Lys Asn Leu Met Asn Ala Val Val Leu Thr Val		
820	825	830
Lys Ala Ser Tyr Val Ala Ser Thr Lys Tyr Gln Lys Val Tyr Gly Thr		
835	840	845
Ala Ala Val Asn Ser Pro Val Val Ser Trp Lys Met Lys Ala Pro Glu		
850	855	860
Lys Lys Pro Leu Val Lys Arg Glu Lys Pro Glu Glu Phe Gln Thr Arg		
865	870	875
		880

Val Arg Arg Gly Ser Gln Lys Lys His Ile Ser Pro Val Gln Ala Leu

885

890

895

Ser Glu Phe Lys Ala Met Asp Ser Phe

900

905

<210> 2556

<211> 495

<212> PRT

<213> Homo sapiens

<400> 2556

Met Ile Trp Asp Gly Ile Val Glu Asn Ala Lys Gly Glu Thr Leu Glu

1

5

10

15

Leu Phe Gln Ser Val His Gly Trp Leu Met Val Leu Tyr Glu Arg Asp

20

25

30

Cys Arg Arg Arg Phe Thr Pro Glu Asp His Trp Leu Arg Lys Asp Leu

35

40

45

Lys Pro Ser Val Leu Phe Gln Glu Leu Asp Arg Asp Arg Lys Arg Ala

50

55

60

Gln Leu Ile Leu Gln Tyr Ile Pro His Val Ile Pro His Lys Asn Arg

65

70

75

80

Val Leu Leu Phe Arg Thr Met Val Thr Lys Glu Lys Glu Lys Leu Gly

85

90

95

Leu Val Glu Thr Ser Ser Ala Ser Pro His Val Thr His Ile Thr Ile

100

105

110

Arg Arg Ser Arg Met Leu Glu Asp Gly Tyr Glu Gln Leu Arg Gln Leu

115

120

125

Ser Gln His Ala Met Lys Gly Val Ile Arg Val Lys Phe Val Asn Asp

130 135 140
Leu Gly Val Asp Glu Ala Gly Ile Asp Gln Asp Gly Val Phe Lys Glu
145 150 155 160
Phe Leu Glu Glu Ile Ile Lys Arg Val Phe Asp Pro Ala Leu Asn Leu
165 170 175
Phe Lys Thr Thr Ser Gly Asp Glu Arg Leu Tyr Pro Ser Pro Thr Ser
180 185 190
Tyr Ile His Glu Asn Tyr Leu Gln Leu Phe Glu Phe Val Gly Lys Met
195 200 205
Leu Gly Lys Ala Val Tyr Glu Gly Ile Val Val Asp Val Pro Phe Ala
210 215 220
Ser Phe Phe Leu Ser Gln Leu Leu Gly His His His Ser Val Phe Tyr
225 230 235 240
Ser Ser Val Asp Glu Leu Pro Ser Leu Asp Ser Glu Phe Tyr Lys Asn
245 250 255
Leu Thr Ser Ile Lys Arg Tyr Asp Gly Asp Ile Thr Asp Leu Gly Leu
260 265 270
Thr Leu Ser Tyr Asp Glu Asp Val Met Gly Gln Leu Val Cys His Glu
275 280 285
Leu Ile Pro Gly Gly Lys Thr Ile Pro Val Thr Asn Glu Asn Lys Ile
290 295 300
Ser Tyr Ile His Leu Met Ala His Phe Arg Met His Thr Gln Ile Lys
305 310 315 320
Asn Gln Thr Ala Ala Leu Ile Ser Gly Phe Arg Ser Ile Ile Lys Pro
325 330 335
Glu Trp Ile Arg Met Phe Ser Thr Pro Glu Leu Gln Arg Leu Ile Ser
340 345 350
Gly Asp Asn Ala Glu Ile Asp Leu Glu Asp Leu Lys Lys His Thr Val
355 360 365

Tyr Tyr Gly Gly Phe His Gly Ser His Arg Val Ile Ile Trp Leu Trp
 370 375 380

Asp Ile Leu Ala Ser Asp Phe Thr Pro Asp Glu Arg Ala Met Phe Leu
 385 390 395 400

Lys Phe Val Thr Ser Cys Ser Arg Pro Pro Leu Leu Gly Phe Ala Tyr
 405 410 415

Leu Lys Pro Pro Phe Ser Ile Arg Cys Val Glu Val Ser Asp Asp Gln
 420 425 430

Asp Thr Gly Asp Thr Leu Gly Ser Val Leu Arg Gly Phe Phe Thr Ile
 435 440 445

Arg Lys Arg Glu Pro Gly Gly Arg Leu Pro Thr Ser Ser Thr Cys Phe
 450 455 460

Asn Leu Leu Lys Leu Pro Asn Tyr Ser Lys Lys Ser Val Leu Arg Glu
 465 470 475 480

Lys Leu Arg Tyr Ala Ile Ser Met Asn Thr Gly Phe Glu Leu Ser
 485 490 495

<210> 2557

<211> 620

<212> PRT

<213> Homo sapiens

<400> 2557

Met Phe Glu Thr Ser Leu Pro Arg Lys Met Ala Glu Ile Leu Val Ala
 1 5 10 15

Thr Val Ala Phe Leu Leu Pro Ser Ala Glu Tyr Ser Ser Val Glu Thr
 20 25 30

Asp Lys Lys Phe Ile Val Ser Leu Leu Leu Cys Leu Leu Asp Trp Cys

35 40 45
Met Ala Leu Pro Val Ser Val Leu Leu His Pro Val Ser Thr Ala Val
50 55 60
Leu Glu Glu Gln His Ser Ala Arg Ala Pro Leu Leu Asp Tyr Ile Tyr
65 70 75 80
Arg Val Leu His Cys Cys Val Cys Gly Ser Ser Thr Tyr Thr Gln Gln
85 90 95
Ser His Tyr Ile Leu Thr Leu Ala Asp Leu Ser Ser Thr Asp Tyr Asp
100 105 110
Pro Phe Leu Pro Leu Ala Asn Val Lys Ser Ser Glu Pro Val Gln Tyr
115 120 125
His Ser Ser Ala Glu Leu Gly Asn Leu Leu Thr Val Glu Glu Glu Lys
130 135 140
Lys Arg Arg Ser Leu Glu Leu Ile Pro Leu Thr Ala Arg Met Val Met
145 150 155 160
Ala His Leu Val Asn His Leu Gly His Tyr Pro Leu Ser Gly Gly Pro
165 170 175
Ala Ile Leu His Ser Leu Val Ser Glu Asn His Asp Asn Ala His Val
180 185 190
Glu Gly Ser Glu Leu Ser Phe Glu Val Phe Arg Ser Pro Asn Leu Gln
195 200 205
Leu Phe Val Phe Asn Asp Ser Thr Leu Ile Ser Tyr Leu Gln Thr Pro
210 215 220
Thr Glu Gly Pro Val Gly Gly Ser Pro Val Gly Ser Leu Ser Asp Val
225 230 235 240
Arg Val Ile Val Arg Asp Ile Ser Gly Lys Tyr Ser Trp Asp Gly Lys
245 250 255
Val Leu Tyr Gly Pro Leu Glu Gly Cys Leu Ala Pro Asn Gly Arg Asn
260 265 270

Pro Ser Phe Leu Ile Ser Ser Trp His Arg Asp Thr Phe Gly Pro Gln
 275 280 285
 Lys Asp Ser Ser Gln Val Glu Glu Gly Asp Asp Val Leu Asp Lys Leu
 290 295 300
 Leu Glu Asn Ile Gly His Thr Ser Pro Glu Cys Leu Leu Pro Ser Gln
 305 310 315 320
 Leu Asn Leu Asn Glu Pro Ser Leu Thr Pro Cys Gly Met Asn Tyr Asp
 325 330 335
 Gln Glu Lys Glu Ile Ile Glu Val Ile Leu Arg Gln Asn Ala Gln Glu
 340 345 350
 Asp Glu Tyr Ile Gln Ser His Asn Phe Asp Ser Ala Met Lys Val Thr
 355 360 365
 Ser Gln Gly Gln Pro Ser Pro Val Glu Pro Arg Gly Pro Phe Tyr Phe
 370 375 380
 Cys Arg Leu Leu Leu Asp Asp Leu Gly Met Asn Ser Trp Asp Arg Arg
 385 390 395 400
 Lys Asn Phe His Leu Leu Lys Lys Asn Ser Lys Leu Leu Arg Glu Leu
 405 410 415
 Lys Asn Leu Asp Ser Arg Gln Cys Arg Glu Thr His Lys Ile Ala Val
 420 425 430
 Phe Tyr Ile Ala Glu Gly Gln Glu Asp Lys Cys Ser Ile Leu Ser Asn
 435 440 445
 Glu Arg Gly Ser Gln Ala Tyr Glu Asp Phe Val Ala Gly Leu Gly Trp
 450 455 460
 Glu Val Asp Leu Ser Thr His Cys Gly Phe Met Gly Gly Leu Gln Arg
 465 470 475 480
 Asn Gly Ser Thr Gly Gln Thr Ala Pro Tyr Tyr Ala Thr Ser Thr Val
 485 490 495
 Glu Val Ile Phe His Val Ser Thr Arg Met Pro Ser Asp Ser Asp Asp

				500				505				510			
Ser	Leu	Thr	Lys	Lys	Leu	Arg	His	Leu	Gly	Asn	Asp	Glu	Val	His	Ile
515				520				525							
Val	Trp	Ser	Glu	His	Ser	Arg	Asp	Tyr	Arg	Arg	Gly	Ile	Ile	Pro	Thr
530				535				540							
Ala	Phe	Gly	Asp	Val	Ser	Ile	Ile	Ile	Tyr	Pro	Met	Lys	Asn	His	Met
545				550				555				560			
Phe	Phe	Ile	Ala	Ile	Thr	Lys	Lys	Pro	Glu	Val	Pro	Phe	Phe	Gly	Pro
565				570				575							
Leu	Phe	Asp	Gly	Ala	Ile	Val	Ser	Gly	Lys	Leu	Leu	Pro	Ser	Leu	Val
580				585				590							
Cys	Ala	Thr	Cys	Ile	Asn	Ala	Ser	Arg	Ala	Val	Lys	Cys	Leu	Ile	Pro
595				600				605							
Leu	Tyr	Gln	Ser	Leu	Tyr	Leu	Phe	Ala	Leu	Asn	Val				
610				615				620							

<210> 2558

<211> 214

<212> PRT

<213> Homo sapiens

<400> 2558

Met Glu Ile Trp Glu Ser Ser Glu Glu Leu Leu Gln His Trp Leu Ser
1 5 10 15
Val Glu Ala Leu Gln Gly Ile Gly Arg Leu His Pro Leu Phe Lys Pro
20 25 30
His Gly Val Ser Ser Glu Ser Ile Lys Lys Ser Val Ile Pro Val Val
35 40 45

Ala His Thr Ser Gly Cys Cys Ser Arg Pro Ser Ser Leu Glu Gly Arg
50 55 60
Gln Glu Asp Ile Glu His Asn Lys Thr Leu Leu Ser Leu Arg Gln Val
65 70 75 80
Val Pro Arg Leu Leu Cys Leu Pro Ser Leu Ser Pro Leu Gln Asp His
85 90 95
Pro Asp Val Gln Val Trp Ser Ser Met Ser Ser Leu Gly Phe Thr Leu
100 105 110
His Leu Arg Thr Met Ala Cys Val Ser Phe Pro Gly Met Glu Ser Ala
115 120 125
Gly Ile His Glu Thr Thr Tyr Asn Ser Ile Met Lys Cys Asp Ile Asp
130 135 140
Ile Arg Lys Asp Leu Tyr Ala Asn Asn Val Leu Ser Gly Gly Thr Thr
145 150 155 160
Met Tyr Pro Gly Ile Ala Asp Arg Met Gln Lys Glu Ile Thr Ala Leu
165 170 175
Ala Pro Ser Thr Met Lys Ile Lys Val Pro Phe Ser Asp Arg Pro Ser
180 185 190
Gly Asn Ala Ala Ser Ser Val Ser Pro Ile Thr Thr Asp Lys Asn Ser
195 200 205
Ser Glu Thr Val Phe Trp
210

<210> 2559

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2559

Met Ala Trp Gln His Cys Gln Arg Glu Ser Ser Gly Ala His Ala Cys

1 5 10 15

Ser Val Phe Cys Ser Ala Ile Pro Arg Val Asp Ser Thr Glu Glu Ala

20 25 30

Val His Leu Asn Lys Ile Arg Val Leu Asp Glu Gly Arg Gly Gly Glu

35 40 45

Trp Leu Leu Gln Ser Thr Val His Thr Ser Met Glu Arg Arg Trp Asp

50 55 60

Leu Ile Pro Gly Cys Lys Ser Ser Leu Cys His Leu Leu Ser Val Cys

65 70 75 80

Pro Gln Val Ser His Leu Thr Phe Leu Phe Phe Ser Phe Leu Ile Cys

85 90 95

Lys Ile Ile Pro Thr Leu Gln Asn Gly Cys Gly Arg

100 105

<210> 2560

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2560

Met Asp Pro Thr Ser Cys Pro Ser His His Pro Glu Asp Ala Trp Gly

1 5 10 15

Leu Val Leu Gln Gly Met Leu Ser Arg Leu Pro Ala Phe His His Gly

20 25 30

Met Lys Gln Gln Glu Gly Ser Cys Gln Arg Gln Thr Pro Arg Pro Trp

35 40 45

Thr Ser Gln Pro Pro Glu Leu Pro Met Leu Cys Arg Leu Gly Cys Gly
 50 55 60
 Gly Ala Pro Gln Met Arg Arg Arg Val Val Gln Glu Leu Pro Ser Cys
 65 70 75 80
 Cys Leu Arg Asn Gly Cys Cys Val His Ser Leu Pro Ser Pro Leu Val
 85 90 95
 Asn Gly Trp Glu His Val Asn Ser Cys Lys Leu Phe Asn Leu Ser Val
 100 105 110
 Pro Gln Phe Pro His Tyr Lys Ser Trp Ile Val Ile Met His Leu Leu
 115 120 125
 Leu

<210> 2561

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2561

Met Gln Glu Leu Lys Gly Tyr Gln Ile Pro Lys Gly Trp Ser Val Met
 1 5 10 15
 Tyr Ser Ile Arg Asp Thr His Glu Thr Ala Ala Val Tyr Arg Ser Pro
 20 25 30
 Pro Glu Gly Phe Asp Pro Glu Arg Phe Gly Ala Ala Arg Glu Asp Ser
 35 40 45
 Arg Gly Ala Ser Ser Arg Phe His Tyr Ile Pro Phe Gly Gly Gly Ala
 50 55 60
 Arg Ser Cys Leu Gly Gln Glu Leu Ala Gln Ala Val Leu Gln Leu Leu

65 70 75 80
 Ala Val Glu Leu Val Arg Thr Ala Arg Trp Glu Leu Ala Thr Pro Ala
 85 90 95
 Phe Pro Ala Met Gln Thr Val Pro Ile Val His Pro Val Asp Gly Leu
 100 105 110
 Arg Leu Phe Phe His Pro Leu Thr Pro Ser Val Ala Gly Asn Gly Leu
 115 120 125
 Cys Leu
 130

<210> 2562

<211> 328

<212> PRT

<213> Homo sapiens

<400> 2562

Met Pro Gln Ala Thr Ser Pro Pro Leu Trp Pro Leu Ser Leu His Gly
 1 5 10 15
 Gly Lys Gly Ile Leu Trp Ala Arg His Ser His Pro Pro Gly Pro Pro
 20 25 30
 Ser His His Ile Gln Asp Ser Gly Arg Cys Ser Leu Pro Leu Pro Gln
 35 40 45
 Ser Pro Gly Val Thr Pro Leu Pro Ala Arg Leu Ser Gly Ala Thr Pro
 50 55 60
 Leu Ser Pro Ile Arg Leu Leu Ser Ser Phe Val Pro Arg Gly Pro Arg
 65 70 75 80
 Val Ile Pro Leu Thr Asn Gln Ala Arg Arg Thr Leu His Ala Ser Leu
 85 90 95

Gly Gly Cys Trp Gly Arg Thr Ser Asp Ala Ala Asp Thr Ala Ser Leu
 100 105 110
 Lys Ala Trp Gln Gly Gly Pro Glu Phe Leu Lys Thr Pro Leu Gly Gly
 115 120 125
 Ser Phe Leu Val Tyr Glu Ser Phe Leu Tyr Arg Arg Glu Lys Ala Ala
 130 135 140
 Gly Glu Lys Val Tyr Trp Thr Cys Arg Asp Gln Ala Arg Met Gly Cys
 145 150 155 160
 Arg Ser Arg Ala Ile Thr Gln Gly Arg Arg Val Met Val Met Arg Arg
 165 170 175
 His Cys His Pro Pro Asp Leu Gly Gly Leu Glu Ala Leu Arg Gln Arg
 180 185 190
 Glu His Phe Pro Asn Leu Ala Gln Trp Asp Ser Pro Asp Pro Leu Arg
 195 200 205
 Pro Leu Glu Phe Leu Arg Thr Ser Leu Gly Gly Arg Phe Leu Val His
 210 215 220
 Glu Ser Phe Leu Tyr Arg Lys Glu Lys Ala Ala Gly Glu Lys Val Tyr
 225 230 235 240
 Trp Met Cys Arg Asp Gln Ala Arg Leu Gly Cys Arg Ser Arg Ala Ile
 245 250 255
 Thr Gln Gly His Arg Ile Met Val Met Arg Ser His Cys His Gln Pro
 260 265 270
 Asp Leu Ala Gly Leu Glu Ala Leu Arg Gln Arg Glu Arg Leu Pro Thr
 275 280 285
 Thr Ala Gln Gln Glu Asp Pro Glu Lys Ile Gln Val Gln Leu Cys Phe
 290 295 300
 Lys Thr Cys Ser Pro Glu Ser Gln Gln Ile Tyr Gly Asp Ile Lys Asp
 305 310 315 320
 Val Arg Leu Asp Gly Glu Ser Gln

325

<210> 2563

<211> 191

<212> PRT

<213> Homo sapiens

<400> 2563

Met Ser Pro Pro Gly Phe Gly Ala Ala Pro Arg Val Pro Val His Thr

1 5 10 15

Leu Phe Asp Pro Gly Ser Ala Gly Leu Gly Ala Gly Glu Thr Pro Thr

20 25 30

Ser Pro Ala Pro Ser Asp Trp Ser Arg Gly Trp Leu Gly Lys Thr Ala

35 40 45

Ala Ser Ile Leu Pro Phe Gln Leu His Pro Pro Thr Leu Pro Arg Ala

50 55 60

Gln Asn Arg Asp Lys Leu Val Ala Cys Ala Ser Leu Ser Pro Thr His

65 70 75 80

Pro Thr Lys Thr Cys Asp Leu Ala Thr Ala Pro Pro Ile Gln Pro Tyr

85 90 95

Pro Leu Gly Ala Ser Cys Arg Gln Ala Gly Ala Gly Leu Val Gly Ala

100 105 110

Ser Cys Ser Cys Thr Glu Ala Pro Leu Pro Gln Phe Cys Ile Gly Val

115 120 125

Glu Met Cys Thr Ala Ala Pro Ala Val Ala Arg Lys Gln Leu Cys Arg

130 135 140

Gly Arg Met Trp Trp Ala Gln Ala Gln Gly Thr Gly Ala Ala Ser Gln

145 150 155 160

Pro Ser Leu His Leu Pro Cys Ser Ser Arg Ala Pro Gly Thr Trp Ser
 165 170 175
 Gly Trp Cys Gln Met Thr Arg Thr Ser Trp Thr Pro Arg Thr Pro
 180 185 190

<210> 2564

<211> 983

<212> PRT

<213> Homo sapiens

<400> 2564

Met Trp Asp Pro Val Thr Pro Tyr Arg Leu His Val Leu Cys Gln Gly
 1 5 10 15
 Trp His Tyr Leu Ala Tyr Asp Trp His Trp Thr Thr Asp Arg Ser Val
 20 25 30
 Gly Asp Asn Ser Ser Asp Leu Ser Asn Val Ala Val Ile Asp Gly Asn
 35 40 45
 Arg Val Leu Val Thr Val Phe Arg Gln Thr Val Val Pro Pro Pro Met
 50 55 60
 Cys Thr Tyr Gln Leu Leu Phe Pro His Pro Val Asn Gln Val Thr Phe
 65 70 75 80
 Leu Ala His Pro Gln Lys Ser Asn Asp Leu Ala Val Leu Asp Ala Ser
 85 90 95
 Asn Gln Ile Ser Val Tyr Lys Cys Gly Asp Cys Pro Ser Ala Asp Pro
 100 105 110
 Thr Val Lys Leu Gly Ala Val Gly Gly Ser Gly Phe Lys Val Cys Leu
 115 120 125
 Arg Thr Pro His Leu Glu Lys Arg Tyr Lys Ile Gln Phe Glu Asn Asn

130 135 140
Glu Asp Gln Asp Val Asn Pro Leu Lys Leu Gly Leu Leu Thr Trp Ile
145 150 155 160
Glu Glu Asp Val Phe Leu Ala Val Ser His Ser Glu Phe Ser Pro Arg
165 170 175
Ser Val Ile His His Leu Thr Ala Ala Ser Ser Glu Met Asp Glu Glu
180 185 190
His Gly Gln Leu Asn Val Ser Ser Ser Ala Ala Val Asp Gly Val Ile
195 200 205
Ile Ser Leu Cys Cys Asn Ser Lys Thr Lys Ser Val Val Leu Gln Leu
210 215 220
Ala Asp Gly Gln Ile Phe Lys Tyr Leu Trp Glu Ser Pro Ser Leu Ala
225 230 235 240
Ile Lys Pro Trp Lys Asn Ser Gly Gly Phe Pro Val Arg Phe Pro Tyr
245 250 255
Pro Cys Thr Gln Thr Glu Leu Ala Met Ile Gly Glu Glu Glu Cys Val
260 265 270
Leu Gly Leu Thr Asp Arg Cys Arg Phe Phe Ile Asn Asp Ile Glu Val
275 280 285
Ala Ser Asn Ile Thr Ser Phe Ala Val Tyr Asp Glu Phe Leu Leu Leu
290 295 300
Thr Thr His Ser His Thr Cys Gln Cys Phe Cys Leu Arg Asp Ala Ser
305 310 315 320
Phe Lys Thr Leu Gln Ala Gly Leu Ser Ser Asn His Val Ser His Gly
325 330 335
Glu Val Leu Arg Lys Val Glu Arg Gly Ser Arg Ile Val Thr Val Val
340 345 350
Pro Gln Asp Thr Lys Leu Val Leu Gln Met Pro Arg Gly Asn Leu Glu
355 360 365

Val Val His His Arg Ala Leu Val Leu Ala Gln Ile Arg Lys Trp Leu
370 375 380
Asp Lys Leu Met Phe Lys Glu Ala Phe Glu Cys Met Arg Lys Leu Arg
385 390 395 400
Ile Asn Leu Asn Leu Ile Tyr Asp His Asn Pro Lys Val Phe Leu Gly
405 410 415
Asn Val Glu Thr Phe Ile Lys Gln Ile Asp Ser Val Asn His Ile Asn
420 425 430
Leu Phe Phe Thr Glu Leu Lys Glu Glu Asp Val Thr Lys Thr Met Tyr
435 440 445
Pro Ala Pro Val Thr Ser Ser Val Tyr Leu Ser Arg Asp Pro Asp Gly
450 455 460
Asn Lys Ile Asp Leu Val Cys Asp Ala Met Arg Ala Val Met Glu Ser
465 470 475 480
Ile Asn Pro His Lys Tyr Cys Leu Ser Ile Leu Thr Ser His Val Lys
485 490 495
Lys Thr Thr Pro Glu Leu Glu Ile Val Leu Gln Lys Val His Glu Leu
500 505 510
Gln Gly Asn Ala Pro Ser Asp Pro Asp Ala Val Ser Ala Glu Glu Ala
515 520 525
Leu Lys Tyr Leu Leu His Leu Val Asp Val Asn Glu Leu Tyr Asp His
530 535 540
Ser Leu Gly Thr Tyr Asp Phe Asp Leu Val Leu Met Val Ala Glu Lys
545 550 555 560
Ser Gln Lys Asp Pro Lys Glu Tyr Leu Pro Phe Leu Asn Thr Leu Lys
565 570 575
Lys Met Glu Thr Asn Tyr Gln Arg Phe Thr Ile Asp Lys Tyr Leu Lys
580 585 590
Arg Tyr Glu Lys Ala Ile Gly His Leu Ser Lys Cys Gly Pro Glu Tyr

595 600 605
Phe Pro Glu Cys Leu Asn Leu Ile Lys Asp Lys Asn Leu Tyr Asn Glu
610 615 620
Ala Leu Lys Leu Tyr Ser Pro Ser Ser Gln Gln Tyr Gln Asp Ile Ser
625 630 635 640
Ile Ala Tyr Gly Glu His Leu Met Gln Glu His Met Tyr Glu Pro Ala
645 650 655
Gly Leu Met Phe Ala Arg Cys Gly Ala His Glu Lys Ala Leu Ser Ala
660 665 670
Phe Leu Thr Cys Gly Asn Trp Lys Gln Ala Leu Cys Val Ala Ala Gln
675 680 685
Leu Asn Phe Thr Lys Asp Gln Leu Glu Gly Leu Gly Arg Thr Leu Ala
690 695 700
Gly Lys Leu Val Glu Gln Arg Lys His Ile Asp Ala Ala Met Val Leu
705 710 715 720
Glu Glu Cys Ala Gln Asp Tyr Glu Glu Ala Val Leu Leu Leu Leu Glu
725 730 735
Gly Ala Ala Trp Glu Glu Ala Leu Arg Leu Val Tyr Lys Tyr Asn Arg
740 745 750
Leu Asp Ile Ile Glu Thr Asn Val Lys Pro Ser Ile Leu Glu Ala Gln
755 760 765
Lys Asn Tyr Met Ala Phe Leu Asp Ser Gln Thr Ala Thr Phe Ser Arg
770 775 780
His Lys Lys Arg Leu Leu Val Val Arg Glu Leu Lys Glu Gln Ala Gln
785 790 795 800
His Ala Gly Leu Asp Asp Glu Val Pro His Gly Gln Glu Ser Asp Leu
805 810 815
Phe Ser Glu Thr Ser Ser Val Val Ser Gly Ser Glu Met Ser Gly Lys
820 825 830

Tyr Ser His Ser Asn Ser Arg Ile Ser Ala Arg Ser Ser Lys Asn Arg
835 840 845
Arg Lys Ala Glu Arg Lys Lys His Ser Leu Lys Glu Gly Ser Pro Leu
850 855 860
Glu Asp Leu Ala Leu Leu Glu Ala Leu Ser Glu Val Val Gln Asn Thr
865 870 875 880
Glu Asn Leu Lys Asp Glu Val Tyr His Ile Leu Lys Val Leu Phe Leu
885 890 895
Phe Glu Phe Asp Glu Gln Gly Arg Glu Leu Gln Lys Ala Phe Glu Asp
900 905 910
Thr Leu Gln Leu Met Glu Arg Ser Leu Pro Glu Ile Trp Thr Leu Thr
915 920 925
Tyr Gln Gln Asn Ser Ala Thr Pro Val Leu Gly Pro Asn Ser Thr Ala
930 935 940
Asn Ser Ile Met Ala Ser Tyr Gln Gln Gln Lys Thr Ser Val Pro Val
945 950 955 960
Leu Asp Ala Glu Leu Phe Ile Pro Pro Lys Ile Asn Arg Arg Thr Gln
965 970 975
Trp Lys Leu Ser Leu Leu Asp
980

<210> 2565

<211> 907

<212> PRT

<213> Homo sapiens

<400> 2565

Met Tyr Ser Asp Glu Asp Leu Ala Gln Val Val Asp Glu Leu Ile Gln

1	5	10	15
Glu Ala Leu Gln Arg Asp Cys Glu Glu Val Gly Ser Ala Gly Ala Ala			
20	25	30	
Tyr Ala Ala Ala Ala Leu Gly Val Ser Asn Ala Ala Met Glu Asp Leu			
35	40	45	
Leu Thr Ala Ala Thr Thr Gly Ile Leu Arg His Ile Ala Ala Glu Glu			
50	55	60	
Val Ser Lys Glu Arg Glu Arg Arg Glu Gln Glu Arg Gln Arg Ala Glu			
65	70	75	80
Glu Glu Arg Leu Lys Gln Glu Arg Glu Leu Val Leu Ser Glu Leu Ser			
85	90	95	
Gln Gly Leu Ala Val Glu Leu Met Glu Arg Val Met Met Glu Phe Val			
100	105	110	
Arg Glu Thr Cys Ser Gln Glu Leu Lys Asn Ala Val Glu Thr Asp Gln			
115	120	125	
Arg Val Arg Val Ala Arg Cys Cys Glu Asp Val Cys Ala His Leu Val			
130	135	140	
Asp Leu Phe Leu Val Glu Glu Ile Phe Gln Thr Ala Lys Glu Thr Leu			
145	150	155	160
Gln Glu Leu Gln Cys Phe Cys Lys Tyr Leu Gln Arg Trp Arg Glu Ala			
165	170	175	
Val Thr Ala Arg Lys Lys Leu Arg Arg Gln Met Arg Ala Phe Pro Ala			
180	185	190	
Ala Pro Cys Cys Val Asp Val Ser Asp Arg Leu Arg Ala Leu Ala Pro			
195	200	205	
Ser Ala Glu Cys Pro Ile Ala Glu Glu Ser Leu Ala Arg Gly Leu Leu			
210	215	220	
Asp Leu Gly His Ala Gly Arg Leu Gly Ile Ser Cys Thr Arg Leu Arg			
225	230	235	240

Arg Leu Arg Asn Lys Thr Ala His Gln Met Lys Val Gln His Phe Tyr
 245 250 255
 Gln Gln Leu Leu Ser Asp Val Ala Trp Ala Ser Leu Asp Leu Pro Ser
 260 265 270
 Leu Val Ala Glu His Leu Pro Gly Arg Gln Glu His Val Phe Trp Lys
 275 280 285
 Leu Val Leu Val Leu Pro Asp Val Glu Glu Gln Ser Pro Glu Ser Cys
 290 295 300
 Gly Arg Ile Leu Ala Asn Trp Leu Lys Val Lys Phe Met Gly Asp Glu
 305 310 315 320
 Gly Ser Val Asp Asp Thr Ser Ser Asp Ala Gly Gly Ile Gln Thr Leu
 325 330 335
 Ser Leu Phe Asn Ser Leu Ser Ser Lys Gly Asp Gln Met Ile Ser Val
 340 345 350
 Asn Val Cys Ile Lys Val Ala His Gly Ala Leu Ser Asp Gly Ala Ile
 355 360 365
 Asp Ala Val Glu Thr Gln Lys Asp Leu Leu Gly Ala Ser Gly Leu Met
 370 375 380
 Leu Leu Leu Pro Pro Lys Met Lys Ser Glu Asp Met Ala Glu Glu Asp
 385 390 395 400
 Val Tyr Trp Leu Ser Ala Leu Leu Gln Leu Lys Gln Leu Leu Gln Ala
 405 410 415
 Lys Pro Phe Gln Pro Ala Leu Pro Leu Val Val Leu Val Pro Ser Pro
 420 425 430
 Gly Gly Asp Ala Val Glu Lys Glu Val Glu Asp Gly Leu Met Leu Gln
 435 440 445
 Asp Leu Val Ser Ala Lys Leu Ile Ser Asp Tyr Thr Val Thr Glu Ile
 450 455 460
 Pro Asp Thr Ile Asn Asp Leu Gln Gly Ser Thr Lys Val Leu Gln Ala

465 470 475 480
Val Gln Trp Leu Val Ser His Cys Pro His Ser Leu Asp Leu Cys Cys
 485 490 495
Gln Thr Leu Ile Gln Tyr Val Glu Asp Gly Ile Gly His Glu Phe Ser
 500 505 510
Gly Arg Phe Phe His Asp Arg Arg Glu Arg Arg Leu Gly Gly Leu Ala
 515 520 525
Ser Gln Glu Pro Gly Ala Ile Ile Glu Leu Phe Asn Ser Val Leu Gln
 530 535 540
Phe Leu Ala Ser Val Val Ser Ser Glu Gln Leu Cys Asp Leu Ser Trp
545 550 555 560
Pro Val Thr Glu Phe Ala Glu Ala Gly Gly Ser Arg Leu Leu Pro His
 565 570 575
Leu His Trp Asn Ala Pro Glu His Leu Ala Trp Leu Lys Gln Ala Val
 580 585 590
Leu Gly Phe Gln Leu Pro Gln Met Asp Leu Pro Pro Leu Gly Ala Pro
 595 600 605
Trp Leu Pro Val Cys Ser Met Val Val Gln Tyr Ala Ser Gln Ile Pro
 610 615 620
Ser Ser Arg Gln Thr Gln Pro Val Leu Gln Ser Gln Val Glu Asn Leu
625 630 635 640
Leu His Arg Thr Tyr Cys Arg Trp Lys Ser Lys Ser Pro Ser Pro Val
 645 650 655
His Gly Ala Gly Pro Ser Val Met Glu Ile Pro Trp Asp Asp Leu Ile
 660 665 670
Ala Leu Cys Ile Asn His Lys Leu Arg Asp Trp Thr Pro Pro Arg Leu
 675 680 685
Pro Val Thr Ser Glu Ala Leu Ser Glu Asp Gly Gln Ile Cys Val Tyr
 690 695 700

Phe Phe Lys Asn Asp Leu Lys Lys Tyr Asp Val Pro Leu Ser Trp Glu
705 710 715 720
Gln Ala Arg Leu Gln Thr Gln Lys Glu Leu Gln Leu Arg Glu Gly Arg
725 730 735
Leu Ala Ile Lys Pro Phe His Pro Ser Ala Asn Asn Phe Pro Ile Pro
740 745 750
Leu Leu His Met His Arg Asn Trp Lys Arg Ser Thr Glu Cys Ala Gln
755 760 765
Glu Gly Arg Ile Pro Ser Thr Glu Asp Leu Met Arg Gly Ala Ser Ala
770 775 780
Glu Glu Leu Leu Ala Gln Cys Leu Ser Ser Ser Leu Leu Leu Glu Lys
785 790 795 800
Glu Glu Asn Lys Arg Phe Glu Asp Gln Leu Gln Gln Trp Leu Ser Glu
805 810 815
Asp Ser Gly Ala Phe Thr Asp Leu Thr Ser Leu Pro Leu Tyr Leu Pro
820 825 830
Gln Thr Leu Val Ser Leu Ser His Thr Ile Glu Pro Val Met Lys Thr
835 840 845
Ser Val Thr Thr Ser Pro Gln Ser Asp Met Met Arg Glu Gln Leu Gln
850 855 860
Leu Ser Glu Ala Thr Gly Thr Cys Leu Gly Glu Arg Leu Lys His Leu
865 870 875 880
Glu Arg Leu Ile Arg Ser Ser Arg Glu Glu Glu Val Ala Ser Glu Leu
885 890 895
His Leu Ser Ala Leu Leu Asp Met Val Asp Ile
900 905

<210> 2566

<211> 726

<212> PRT

<213> Homo sapiens

<400> 2566

Met Asp Leu Ser Thr Gly Gln Glu Glu Glu Ala Glu Asn Phe Ala Pro

1 5 10 15

Ile Leu Ala Phe Leu Asp His Glu Gly Tyr Ala Asp His Phe Lys Ser

20 25 30

Leu Tyr Asp Phe Ser Phe Ser Phe Leu Thr Ser Ser Phe Tyr Ser Phe

35 40 45

Ser Glu Glu Asp Glu Phe Val Ala Tyr Leu Glu Ala Ser Arg Lys Trp

50 55 60

Ala Lys Lys Ser His Met Thr Trp Ala His Ala Arg Leu Cys Phe Leu

65 70 75 80

Leu Gly Arg Leu Ser Ile Arg Lys Val Lys Leu Ser Gln Ala Arg Val

85 90 95

Tyr Phe Glu Glu Ala Ile His Ile Leu Asn Gly Ala Phe Glu Asp Leu

100 105 110

Ser Leu Val Ala Thr Leu Tyr Ile Asn Leu Ala Ala Ile Tyr Leu Lys

115 120 125

Gln Arg Leu Arg His Lys Gly Ser Ala Leu Leu Glu Lys Ala Gly Ala

130 135 140

Leu Leu Ala Cys Leu Pro Asp Arg Glu Ser Ser Ala Lys His Glu Leu

145 150 155 160

Asp Val Val Ala Tyr Val Leu Arg Gln Gly Ile Val Val Gly Ser Ser

165 170 175

Pro Leu Glu Ala Arg Ala Cys Phe Leu Ala Ile Arg Leu Leu Leu Ser

180 185 190

Leu Gly Arg His Glu Glu Val Leu Pro Phe Ala Glu Arg Leu Gln Leu
195 200 205

Leu Ser Gly His Pro Pro Ala Ser Glu Ala Val Ala Ser Val Leu Ser
210 215 220

Phe Leu Tyr Asp Lys Lys Tyr Leu Pro His Leu Ala Val Ala Ser Val
225 230 235 240

Gln Gln His Gly Ile Gln Ser Ala Gln Gly Met Ser Leu Ser Ile Trp
245 250 255

Gln Val His Leu Val Leu Gln Asn Thr Thr Lys Leu Leu Gly Phe Pro
260 265 270

Ser Pro Gly Trp Gly Glu Val Ser Ala Leu Ala Cys Pro Met Leu Arg
275 280 285

Gln Ala Leu Ala Ala Cys Glu Glu Leu Ala Asp Arg Ser Thr Gln Arg
290 295 300

Ala Leu Cys Leu Ile Leu Ser Lys Val Tyr Leu Glu His Arg Ser Pro
305 310 315 320

Asp Gly Ala Ile His Tyr Leu Ser Gln Ala Leu Val Leu Gly Gln Leu
325 330 335

Leu Gly Glu Gln Glu Ser Phe Glu Ser Ser Leu Cys Leu Ala Trp Ala
340 345 350

Tyr Leu Leu Ala Ser Gln Ala Lys Lys Ala Leu Asp Val Leu Glu Pro
355 360 365

Leu Leu Cys Ser Leu Lys Glu Thr Glu Ser Leu Thr Gln Arg Gly Val
370 375 380

Ile Tyr Asn Leu Leu Gly Leu Ala Leu Gln Gly Glu Gly Arg Val Asn
385 390 395 400

Arg Ala Ala Lys Ser Tyr Leu Arg Ala Leu Asn Arg Ala Gln Glu Val
405 410 415

Gly Asp Val His Asn Gln Ala Val Ala Met Ala Asn Leu Gly His Leu

420 425 430
Ser Leu Lys Ser Trp Ala Gln His Pro Ala Arg Asn Tyr Leu Leu Gln
435 440 445
Ala Val Arg Leu Tyr Cys Glu Leu Gln Ala Ser Lys Glu Thr Asp Met
450 455 460
Glu Leu Val Gln Val Phe Leu Trp Leu Ala Gln Val Leu Val Ser Gly
465 470 475 480
His Gln Leu Thr His Gly Leu Leu Cys Tyr Glu Met Ala Leu Leu Phe
485 490 495
Gly Leu Arg His Arg His Leu Lys Ser Gln Leu Gln Ala Thr Lys Ser
500 505 510
Leu Cys His Phe Tyr Ser Ser Val Ser Pro Asn Pro Glu Ala Cys Ile
515 520 525
Thr Tyr His Glu His Trp Leu Ala Leu Ala Gln Gln Leu Arg Asp Arg
530 535 540
Glu Met Glu Gly Arg Leu Leu Glu Ser Leu Gly Gln Leu Tyr Arg Asn
545 550 555 560
Leu Asn Thr Ala Arg Ser Leu Arg Arg Ser Leu Thr Cys Ile Lys Glu
565 570 575
Ser Leu Arg Ile Phe Ile Asp Leu Gly Glu Thr Asp Lys Ala Ala Glu
580 585 590
Ala Trp Leu Gly Ala Gly Arg Leu His Tyr Leu Met Gln Glu Asp Glu
595 600 605
Leu Val Glu Leu Cys Leu Gln Ala Ala Ile Gln Thr Ala Leu Lys Ser
610 615 620
Glu Glu Pro Leu Leu Ala Leu Lys Leu Tyr Glu Glu Ala Gly Asp Val
625 630 635 640
Phe Phe Asn Gly Thr Arg His Arg His His Ala Val Glu Tyr Tyr Arg
645 650 655

Ala Gly Ala Val Pro Leu Ala Arg Arg Leu Lys Ala Val Arg Thr Glu
 660 665 670
 Leu Arg Ile Phe Asn Lys Leu Thr Glu Leu Gln Ile Ser Leu Glu Gly
 675 680 685
 Tyr Glu Lys Ala Leu Glu Phe Ala Thr Leu Ala Ala Arg Leu Ser Thr
 690 695 700
 Val Thr Glu Ala Arg Ala Gly Gly Leu Ser Pro Pro Gly Tyr Ser Val
 705 710 715 720
 Leu Leu Pro Ala His Val
 725

<210> 2567

<211> 763

<212> PRT

<213> Homo sapiens

<400> 2567

Met Asp His Leu Asn Glu Ala Thr Gln Gly Lys Glu His Ser Glu Met
 1 5 10 15
 Ser Asn Asn Val Ser Asp Pro Lys Gly Pro Pro Ala Lys Ile Ala Arg
 20 25 30
 Leu Glu Gln Asn Gly Ser Pro Leu Gly Arg Gly Arg Leu Gly Ser Thr
 35 40 45
 Gly Ala Lys Met Gln Gly Val Pro Leu Lys His Ser Gly His Leu Met
 50 55 60
 Lys Thr Asn Leu Arg Lys Gly Thr Met Leu Pro Val Phe Cys Val Val
 65 70 75 80
 Glu His Tyr Glu Asn Ala Ile Glu Tyr Asp Cys Lys Glu Glu His Ala

	85	90	95
Glu Phe Val Leu Val Arg Lys Asp Met Leu Phe Asn Gln Leu Ile Glu			
100	105	110	
Met Ala Leu Leu Ser Leu Gly Tyr Ser His Ser Ser Ala Ala Gln Ala			
115	120	125	
Lys Gly Leu Ile Gln Val Gly Lys Trp Asn Pro Val Pro Leu Ser Tyr			
130	135	140	
Val Thr Asp Ala Pro Asp Ala Thr Val Ala Asp Met Leu Gln Asp Val			
145	150	155	160
Tyr His Val Val Thr Leu Lys Ile Gln Leu His Ser Cys Pro Lys Leu			
165	170	175	
Glu Asp Leu Pro Pro Glu Gln Trp Ser His Thr Thr Val Arg Asn Ala			
180	185	190	
Leu Lys Asp Leu Leu Lys Asp Met Asn Gln Ser Ser Leu Ala Lys Glu			
195	200	205	
Cys Pro Leu Ser Gln Ser Met Ile Ser Ser Ile Val Asn Ser Thr Tyr			
210	215	220	
Tyr Ala Asn Val Ser Ala Ala Lys Cys Gln Glu Phe Gly Arg Trp Tyr			
225	230	235	240
Lys His Phe Lys Lys Thr Lys Asp Met Met Val Glu Met Asp Ser Leu			
245	250	255	
Ser Glu Leu Ser Gln Gln Gly Ala Asn His Val Asn Phe Gly Gln Gln			
260	265	270	
Pro Val Pro Gly Asn Thr Ala Glu Gln Pro Pro Ser Pro Ala Gln Leu			
275	280	285	
Ser His Gly Ser Gln Pro Ser Val Arg Thr Pro Leu Pro Asn Leu His			
290	295	300	
Pro Gly Leu Val Ser Thr Pro Ile Ser Pro Gln Leu Val Asn Gln Gln			
305	310	315	320

Leu Val Met Ala Gln Leu Leu Asn Gln Gln Tyr Ala Val Asn Arg Leu
325 330 335
Leu Ala Gln Gln Ser Leu Asn Gln Gln Tyr Leu Asn His Pro Pro Pro
340 345 350
Val Ser Arg Ser Met Asn Lys Pro Leu Glu Gln Gln Val Ser Thr Asn
355 360 365
Thr Glu Val Ser Ser Glu Ile Tyr Gln Trp Val Arg Asp Glu Leu Lys
370 375 380
Arg Ala Gly Ile Ser Gln Ala Val Phe Ala Arg Val Ala Phe Asn Arg
385 390 395 400
Thr Gln Gly Leu Leu Ser Glu Ile Leu Arg Lys Glu Glu Asp Pro Lys
405 410 415
Thr Ala Ser Gln Ser Leu Leu Val Asn Leu Arg Ala Met Gln Asn Phe
420 425 430
Leu Gln Leu Pro Glu Ala Glu Arg Asp Arg Ile Tyr Gln Asp Glu Arg
435 440 445
Glu Arg Ser Leu Asn Ala Ala Ser Ala Met Gly Pro Ala Pro Leu Ile
450 455 460
Ser Thr Pro Pro Ser Arg Pro Pro Gln Val Lys Thr Ala Thr Ile Ala
465 470 475 480
Thr Glu Arg Asn Gly Lys Pro Glu Asn Asn Thr Met Asn Ile Asn Ala
485 490 495
Ser Ile Tyr Asp Glu Ile Gln Gln Glu Met Lys Arg Ala Lys Val Ser
500 505 510
Gln Ala Leu Phe Ala Lys Val Ala Ala Thr Lys Ser Gln Gly Trp Leu
515 520 525
Cys Glu Leu Leu Arg Trp Lys Glu Asp Pro Ser Pro Glu Asn Arg Thr
530 535 540
Leu Trp Glu Asn Leu Ser Met Ile Arg Arg Phe Leu Ser Leu Pro Gln

545 550 555 560
Pro Glu Arg Asp Ala Ile Tyr Glu Gln Glu Ser Asn Ala Val His His
 565 570 575
His Gly Asp Arg Pro Pro His Ile Ile His Val Pro Ala Glu Gln Ile
 580 585 590
Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala
 595 600 605
Pro Pro Pro Pro Gln Pro Gln Gln Gln Pro Gln Thr Gly Pro Arg Leu
 610 615 620
Pro Pro Arg Gln Pro Thr Val Ala Ser Pro Ala Glu Ser Asp Glu Glu
625 630 635 640
Asn Arg Gln Lys Thr Arg Pro Arg Thr Lys Ile Ser Val Glu Ala Leu
 645 650 655
Gly Ile Leu Gln Ser Phe Ile Gln Asp Val Gly Leu Tyr Pro Asp Glu
 660 665 670
Glu Ala Ile Gln Thr Leu Ser Ala Gln Leu Asp Leu Pro Lys Tyr Thr
 675 680 685
Ile Ile Lys Phe Phe Gln Asn Gln Arg Tyr Tyr Leu Lys His His Gly
 690 695 700
Lys Leu Lys Asp Asn Ser Gly Leu Glu Val Asp Val Ala Glu Tyr Lys
705 710 715 720
Glu Glu Glu Leu Leu Lys Asp Leu Glu Glu Ser Val Gln Asp Lys Asn
 725 730 735
Thr Asn Thr Leu Phe Ser Val Lys Leu Glu Glu Glu Leu Ser Val Glu
 740 745 750
Gly Asn Thr Asp Ile Asn Thr Asp Leu Lys Asp
 755 760

<210> 2568

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2568

Met Thr Glu Thr Thr Arg Cys Arg Arg Asn Arg Leu Gly Phe Lys Thr

1 5 10 15

Arg Ile Ala Arg Leu Gln Ser Gly Phe Cys Lys Leu Leu Ala Pro Arg

20 25 30

Leu Gly Lys Val Ala Ser Pro Pro Gln Phe Thr Cys Trp Ala Asn Gly

35 40 45

Asp Asn Lys Ile His Thr Ser Ala Pro Thr Val Arg Asn Asn Gly Lys

50 55 60

Thr Gly Trp Glu Gly Ile Leu Gln Asn Tyr Met Leu Cys Ile Tyr Phe

65 70 75 80

Thr His Val Ile Asn Ile Met His Ile Tyr Tyr Thr Pro Thr Val Cys

85 90 95

His Tyr Glu Gln Gly Asp Leu Ser Tyr Asp Asn Leu Glu Glu Ser Pro

100 105 110

Gln Ala Lys Ala Glu Lys Lys Tyr Leu Ser Asp Gly Cys Thr Ala His

115 120 125

Ser

<210> 2569

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2569

Met Glu Ser Cys Met Glu Ile Pro Leu Leu Arg Gly Leu Val Val Ile
1 5 10 15
Gly Arg Gly Tyr Leu Arg Gly Cys Gln Glu Arg Val Gln Gln Ser Lys
20 25 30
Arg Arg Gly Gln Gly Val Asp Asn Tyr Asp Glu Leu Trp Leu Tyr Leu
35 40 45
Cys Thr Leu Val Ser Cys Ser Glu Pro Leu Lys Arg Ser Cys Ser Phe
50 55 60
Ser Arg Asn Ala Gly Ala Ser Lys Thr His Thr Gly Thr Gly Ile Leu
65 70 75 80
Leu Asp Pro Met Ser Leu Ala Pro Pro Leu Thr Val Ala Leu Pro Trp
85 90 95
Val Ile Thr Thr Asn Leu His Asp Leu Pro Arg Leu Cys Gln Lys Asp
100 105 110
Val Lys Gly Thr His Gln Gly Lys Met Pro Thr Cys Arg Arg Arg Ser
115 120 125
Thr Val Ser Asp Lys Val Val Leu Glu Ser
130 135

<210> 2570

<211> 537

<212> PRT

<213> Homo sapiens

<400> 2570

Met Leu Ala Asp Lys His Ala Lys Glu Ile Glu Glu Glu Ser Glu Thr
 1 5 10 15
 Thr Val Glu Ala Asp Leu Thr Asp Lys Gln Lys His Gln Leu Lys His
 20 25 30
 Arg Glu Leu Phe Leu Ser Arg Gln Tyr Glu Ser Leu Pro Ala Thr His
 35 40 45
 Ile Arg Gly Lys Cys Ser Val Ala Leu Leu Asn Glu Thr Glu Ser Val
 50 55 60
 Leu Ser Tyr Leu Asp Lys Glu Asp Thr Phe Phe Tyr Ser Leu Val Tyr
 65 70 75 80
 Asp Pro Ser Leu Lys Thr Leu Leu Ala Asp Lys Gly Glu Ile Arg Val
 85 90 95
 Gly Pro Arg Tyr Gln Ala Asp Ile Pro Glu Met Leu Leu Glu Gly Glu
 100 105 110
 Ser Asp Glu Arg Glu Gln Ser Lys Leu Glu Val Lys Val Trp Asp Pro
 115 120 125
 Asn Ser Pro Leu Thr Asp Arg Gln Ile Asp Gln Phe Leu Val Val Ala
 130 135 140
 Arg Ala Val Gly Thr Phe Ala Arg Ala Leu Asp Cys Ser Ser Ser Val
 145 150 155 160
 Arg Gln Pro Ser Leu His Met Ser Ala Ala Ala Ala Ser Arg Asp Ile
 165 170 175
 Thr Leu Phe His Ala Met Asp Thr Leu Tyr Arg His Ser Tyr Asp Leu
 180 185 190
 Ser Ser Ala Ile Ser Val Leu Val Pro Leu Gly Gly Pro Val Leu Cys
 195 200 205
 Arg Asp Glu Met Glu Glu Trp Ser Ala Ser Glu Ala Ser Leu Phe Glu
 210 215 220
 Glu Ala Leu Glu Lys Tyr Gly Lys Asp Phe Asn Asp Ile Arg Gln Asp

225 230 235 240
Phe Leu Pro Trp Lys Ser Leu Thr Ser Ile Ile Glu Tyr Tyr Tyr Met
 245 250 255
Trp Lys Thr Thr Asp Arg Tyr Val Gln Gln Lys Arg Leu Lys Ala Ala
 260 265 270
Glu Ala Glu Ser Lys Leu Lys Gln Val Tyr Ile Pro Thr Tyr Lys Pro
 275 280 285
Asn Pro Asn Gln Ile Ser Thr Ser Asn Gly Lys Pro Gly Ala Val Asn
 290 295 300
Gly Ala Val Gly Thr Thr Phe Gln Pro Gln Asn Pro Leu Leu Gly Arg
305 310 315 320
Ala Cys Glu Ser Cys Tyr Ala Thr Gln Ser His Gln Trp Tyr Ser Trp
 325 330 335
Gly Pro Pro Asn Met Gln Cys Arg Leu Cys Ala Ile Cys Trp Leu Tyr
 340 345 350
Trp Lys Lys Tyr Gly Gly Leu Lys Met Pro Thr Gln Ser Glu Glu Glu
 355 360 365
Lys Leu Ser Pro Ser Pro Thr Thr Glu Asp Pro Arg Val Arg Ser His
 370 375 380
Val Ser Arg Gln Ala Met Gln Gly Met Pro Val Arg Asn Thr Gly Ser
385 390 395 400
Pro Lys Ser Ala Val Lys Thr Arg Gln Ala Phe Phe Leu His Thr Thr
 405 410 415
Tyr Phe Thr Lys Phe Ala Arg Gln Val Cys Lys Asn Thr Leu Arg Leu
 420 425 430
Arg Gln Ala Ala Arg Arg Pro Phe Val Ala Ile Asn Tyr Ala Ala Ile
 435 440 445
Arg Ala Glu Tyr Ala Asp Arg His Ala Glu Leu Ser Gly Ser Pro Leu
 450 455 460

	85	90	95
Arg Tyr Ile Arg Thr Leu Met Ser Ser Gly Gln Met Ala Pro Ser Ser			
100	105	110	
Ser Asn Lys Ser Gly Glu Thr Asn Pro Val Gln Ile Tyr Ile Gly Leu			
115	120	125	
Leu Gln Gln Leu Leu Ala Gly Val Gly Gly Leu Pro Val Met Tyr Cys			
130	135	140	
Leu Leu Glu Ala Val Ser Val Tyr Pro Glu Lys Leu Ala Thr Lys Phe			
145	150	155	160
Val Asp Lys Thr Glu Trp Ile Lys Ser Leu Met Asn Asn Ser Lys Glu			
165	170	175	
Glu Met Arg Glu Leu Ala Ala Leu Phe Tyr Ser Val Val Val Ser Thr			
180	185	190	
Val Ser Gly Asn Glu Leu Lys Ser Met Ile Glu Gln Leu Ile Lys Thr			
195	200	205	
Thr Lys Asp Asn His Ser Pro Glu Ile Gln His Gly Ser Leu Leu Ala			
210	215	220	
Leu Gly Phe Thr Val Gly Arg Tyr Leu Ala Lys Lys Lys Met Arg Met			
225	230	235	240
Ser Glu Gln Gln Asp Leu Glu Arg Asn Ala Asp Thr Leu Pro Asp Gln			
245	250	255	
Glu Glu Leu Ile Gln Ser Ala Thr Glu Thr Ile Gly Ser Phe Leu Asp			
260	265	270	
Ser Thr Ser Pro Leu Leu Ala Ile Ala Ala Cys Thr Ala Leu Gly Glu			
275	280	285	
Ile Gly Arg Asn Gly Pro Leu Pro Ile Pro Ser Glu Gly Ser Gly Phe			
290	295	300	
Thr Lys Leu His Leu Val Glu Ser Leu Leu Ser Arg Ile Pro Ser Ser			
305	310	315	320

出証特 2 0 0 4 - 3 0 5 9 6 6 1

545 550 555 560
His Ala Met Trp Asn Ser Arg Lys Gly Ala Ala Phe Gly Phe Asn Val
 565 570 575
Ile Ala Thr Arg Ala Gly Glu Gln Leu Ala Pro Phe Leu Pro Gln Leu
 580 585 590
Val Pro Arg Leu Tyr Arg Tyr Gln Phe Asp Pro Asn Leu Gly Ile Arg
 595 600 605
Gln Ala Met Thr Ser Ile Trp Asn Ala Leu Val Thr Asp Lys Ser Met
 610 615 620
Val Asp Lys Tyr Leu Lys Glu Ile Leu Gln Asp Leu Val Lys Asn Leu
625 630 635 640
Thr Ser Asn Met Trp Arg Val Arg Glu Ser Ser Cys Leu Ala Leu Asn
 645 650 655
Asp Leu Leu Arg Gly Arg Pro Leu Asp Asp Ile Ile Asp Lys Leu Pro
 660 665 670
Glu Ile Trp Glu Thr Leu Phe Arg Val Gln Asp Asp Ile Lys Glu Ser
 675 680 685
Val Arg Lys Ala Ala Glu Leu Ala Leu Lys Thr Leu Ser Lys Val Cys
 690 695 700
Val Lys Met Cys Asp Pro Ala Lys Gly Ala Ala Gly Gln Arg Thr Ile
705 710 715 720
Ala Ala Leu Leu Pro Cys Leu Leu Asp Lys Gly Met Met Ser Thr Val
 725 730 735
Thr Glu Val Arg Ala Leu Ser Ile Asn Thr Leu Val Lys Ile Ser Lys
 740 745 750
Ser Ala Gly Ala Met Leu Lys Pro His Ala Pro Lys Leu Ile Pro Ala
 755 760 765
Leu Leu Glu Ser Leu Ser Val Leu Glu Pro Gln Val Leu Asn Tyr Leu
 770 775 780

Ser Leu Arg Ala Thr Glu Gln Glu Lys Ala Ala Met Asp Ser Ala Arg
785 790 795 800
Leu Ser Ala Ala Lys Ser Ser Pro Met Met Glu Thr Ile Asn Met Cys
805 810 815
Leu Gln Tyr Leu Asp Val Ser Val Leu Gly Glu Leu Val Pro Arg Leu
820 825 830
Cys Glu Leu Ile Arg Ser Gly Val Gly Leu Gly Thr Lys Gly Gly Cys
835 840 845
Ala Ser Val Ile Val Ser Leu Thr Thr Gln Cys Pro Gln Asp Leu Thr
850 855 860
Pro Tyr Ser Gly Lys Leu Met Ser Ala Leu Leu Ser Gly Leu Thr Asp
865 870 875 880
Arg Asn Ser Val Ile Gln Lys Ser Cys Ala Phe Ala Met Gly His Leu
885 890 895
Val Arg Thr Ser Arg Asp Ser Ser Thr Glu Lys Leu Leu Gln Lys Leu
900 905 910
Asn Gly Trp Tyr Met Glu Lys Glu Glu Pro Ile Tyr Lys Thr Ser Cys
915 920 925
Ala Leu Thr Ile His Ala Ile Gly Arg Tyr Ser Pro Asp Val Leu Lys
930 935 940
Asn His Ala Lys Glu Val Leu Pro Leu Ala Phe Leu Gly Met His Glu
945 950 955 960
Ile Ala Asp Glu Glu Lys Ser Glu Lys Glu Glu Cys Asn Leu Trp Thr
965 970 975
Glu Val Trp Gln Glu Asn Val Pro Gly Ser Phe Gly Gly Ile Arg Leu
980 985 990
Tyr Leu Gln Glu Leu Ile Thr Ile Thr Gln Lys Ala Leu Gln Ser Gln
995 1000 1005
Ser Trp Lys Met Lys Ala Gln Gly Ala Ile Ala Met Ala Ser Ile Ala

1010 1015 1020
Lys Gln Thr Ser Ser Leu Val Pro Pro Tyr Leu Gly Met Ile Leu Thr
1025 1030 1035 1040
Ala Leu Leu Gln Gly Leu Ala Gly Arg Thr Trp Ala Gly Lys Glu Glu
1045 1050 1055
Leu Leu Lys Ala Ile Ala Cys Val Val Thr Ala Cys Ser Ala Glu Leu
1060 1065 1070
Glu Lys Ser Val Pro Asn Gln Pro Ser Thr Asn Glu Ile Leu Gln Ala
1075 1080 1085
Val Leu Lys Glu Cys Ser Lys Glu Asn Val Lys Tyr Lys Ile Val Ala
1090 1095 1100
Ile Ser Cys Ala Ala Asp Ile Leu Lys Ala Thr Lys Glu Asp Arg Phe
1105 1110 1115 1120
Gln Glu Phe Ser Asn Ile Val Ile Pro Leu Ile Lys Lys Asn Ser Leu
1125 1130 1135
Glu Ser Ser Gly Val Arg Thr Thr Lys Asn Glu Glu Glu Asn Glu Lys
1140 1145 1150
Glu Lys Glu Leu Gln Leu Glu Tyr Leu Leu Gly Ala Phe Glu Ser Leu
1155 1160 1165
Gly Lys Ala Trp Pro Arg Asn Ala Glu Thr Gln Arg Cys Tyr Arg Gln
1170 1175 1180
Glu Leu Cys Lys Leu Met Cys Glu Arg Leu Lys Leu Ser Thr Trp Lys
1185 1190 1195 1200
Val Gln Leu Gly Val Leu Gln Ser Met Asn Ala Phe Phe Gln Gly Leu
1205 1210 1215
Met Leu Leu Glu Glu Glu His Ala Asp Pro Glu Ala Leu Ala Glu Ile
1220 1225 1230
Leu Leu Glu Thr Cys Lys Ser Ile Thr Tyr Ser Leu Glu Asn Lys Thr
1235 1240 1245

Tyr Ser Ser Val Arg Thr Glu Ala Leu Ser Val Ile Glu Leu Leu Leu
 1250 1255 1260
 Lys Lys Leu Glu Glu Ser Lys Gln Trp Glu Cys Leu Thr Ser Glu Cys
 1265 1270 1275 1280
 Arg Val Leu Leu Ile Glu Ser Leu Ala Thr Met Glu Pro Asp Ser Arg
 1285 1290 1295
 Pro Glu Leu Gln Glu Lys Ala Ala Leu Leu Lys Lys Thr Leu Glu Asn
 1300 1305 1310
 Leu Glu

<210> 2572

<211> 596

<212> PRT

<213> Homo sapiens

<400> 2572

Met Asp Leu Ser Thr Gly Gln Glu Glu Glu Ala Glu Asn Phe Ala Pro
 1 5 10 15
 Ile Leu Ala Phe Leu Asp His Glu Gly Tyr Ala Asp His Phe Lys Ser
 20 25 30
 Leu Tyr Asp Phe Ser Phe Ser Phe Leu Thr Ser Ser Phe Tyr Ser Phe
 35 40 45
 Ser Glu Glu Asp Glu Phe Val Ala Tyr Leu Glu Ala Ser Arg Lys Trp
 50 55 60
 Ala Lys Lys Ser His Met Thr Trp Ala His Ala Arg Leu Cys Phe Leu
 65 70 75 80
 Leu Gly Arg Leu Ser Ile Arg Lys Val Lys Leu Ser Gln Ala Arg Val

85	90	95
Tyr Phe Glu Glu Ala Ile His Ile Leu Asn Gly Ala Phe Glu Asp Leu		
100	105	110
Ser Leu Val Ala Thr Leu Tyr Ile Asn Leu Ala Ala Ile Tyr Leu Lys		
115	120	125
Gln Arg Leu Arg His Lys Gly Ser Ala Leu Leu Glu Lys Ala Gly Ala		
130	135	140
Leu Leu Ala Cys Leu Pro Asp Arg Glu Ser Ser Ala Lys His Glu Leu		
145	150	155
160		
Asp Val Val Ala Tyr Val Leu Arg Gln Gly Ile Val Val Gly Ser Ser		
165	170	175
Pro Leu Glu Ala Arg Ala Cys Phe Leu Ala Ile Arg Leu Leu Leu Ser		
180	185	190
Leu Gly Arg His Glu Glu Val Leu Pro Phe Ala Glu Arg Leu Gln Leu		
195	200	205
Leu Ser Gly His Pro Pro Ala Ser Glu Ala Val Ala Ser Val Leu Ser		
210	215	220
Phe Leu Tyr Asp Lys Lys Tyr Leu Pro His Leu Ala Val Ala Ser Val		
225	230	235
240		
Gln Gln His Gly Ile Gln Ser Ala Gln Gly Met Ser Leu Pro Ile Trp		
245	250	255
Gln Val His Leu Val Leu Gln Asn Thr Thr Lys Leu Leu Gly Phe Pro		
260	265	270
Ser Pro Gly Trp Gly Glu Val Ser Ala Leu Ala Cys Pro Met Leu Arg		
275	280	285
Gln Ala Leu Ala Ala Cys Glu Glu Leu Ala Asp Arg Ser Thr Gln Arg		
290	295	300
Ala Leu Cys Leu Ile Leu Ser Lys Val Tyr Leu Glu His Arg Ser Pro		
305	310	315
320		

出証特 2 0 0 4 - 3 0 5 9 6 6 1

545 550 555 560
 Arg His Ala Ser Pro Thr Met Ser Thr Gly Trp Pro Trp Leu Ser Asn
 565 570 575
 Ser Gly Thr Gly Arg Trp Lys Glu Gly Cys Trp Ser Pro Trp Gly Ser
 580 585 590
 Phe Ile Gly Thr
 595

<210> 2573

<211> 479

<212> PRT

<213> Homo sapiens

<400> 2573

Met Leu Glu Ser Thr Ala Val Arg Ala Gln Lys Gln Leu Ile Leu Leu
 1 5 10 15
 His Arg Glu Glu Gly Pro Ala Pro Ala Arg Thr Val Glu Trp Leu Asn
 20 25 30
 Met Arg Ser Trp Cys Ser Gly His Leu His Leu Cys Cys Pro Arg Arg
 35 40 45
 Val Phe Ser Arg Arg Ser Leu Pro Lys Leu Val Glu Met Tyr Lys His
 50 55 60
 Val Phe Gln Arg Pro Pro Asp Arg His Ser Asp Phe Ser Arg Leu Ala
 65 70 75 80
 Arg Val Leu Thr Gly Asn Ala Ile Ala Leu Val Leu Gly Gly Gly Gly
 85 90 95
 Ala Arg Gly Cys Ala Gln Val Gly Val Leu Lys Ala Leu Ala Glu Cys
 100 105 110

Gly Ile Pro Val Asp Met Val Gly Gly Thr Ser Ile Gly Ala Phe Val
115 120 125
Gly Ala Leu Tyr Ser Glu Glu Arg Asn Tyr Ser Gln Met Arg Ile Arg
130 135 140
Ala Lys Gln Trp Ala Glu Gly Met Thr Ser Leu Met Lys Ala Ala Leu
145 150 155 160
Asp Leu Thr Tyr Pro Ile Thr Ser Met Phe Ser Gly Ala Gly Phe Asn
165 170 175
Ser Ser Ile Phe Ser Val Phe Lys Asp Gln Gln Ile Glu Asp Leu Trp
180 185 190
Ile Pro Tyr Phe Ala Ile Thr Thr Asp Ile Thr Ala Ser Ala Met Arg
195 200 205
Val His Thr Asp Gly Ser Leu Trp Arg Tyr Val Arg Ala Ser Met Ser
210 215 220
Leu Ser Gly Tyr Met Pro Pro Leu Cys Asp Pro Lys Asp Gly His Leu
225 230 235 240
Leu Met Asp Gly Gly Tyr Ile Asn Asn Leu Pro Ala Asp Val Ala Arg
245 250 255
Ser Met Gly Ala Lys Val Val Ile Ala Ile Asp Val Gly Ser Arg Asp
260 265 270
Glu Thr Asp Leu Thr Asn Tyr Gly Asp Ala Leu Ser Gly Trp Trp Leu
275 280 285
Leu Trp Lys Arg Trp Asn Pro Leu Ala Thr Lys Val Lys Val Leu Asn
290 295 300
Met Ala Glu Ile Gln Thr Arg Leu Ala Tyr Val Cys Cys Val Arg Gln
305 310 315 320
Leu Glu Val Val Lys Ser Ser Asp Tyr Cys Glu Tyr Leu Arg Pro Pro
325 330 335
Ile Asp Ser Tyr Ser Thr Leu Asp Phe Gly Lys Phe Asn Glu Ile Cys

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Asn Ala Ile Leu Arg Tyr Ile Ala Arg Lys His Asn Leu Cys Gly Glu
35 40 45
Thr Glu Glu Glu Lys Ile Arg Val Asp Ile Leu Glu Asn Gln Val Met
50 55 60
Asp Asn His Met Glu Leu Val Gly Leu Cys Tyr Asp Pro Asp Phe Glu
65 70 75 80
Lys Leu Lys Pro Lys Tyr Leu Glu Glu Leu Pro Glu Lys Leu Lys Leu
85 90 95
Tyr Ser Glu Phe Leu Gly Lys Arg Pro Trp Phe Ala Gly Asp Lys Ile
100 105 110
Thr Phe Val Asp Phe Leu Ala Tyr Asp Val Leu Asp Met Lys Arg Ile
115 120 125
Phe Glu Pro Lys Cys Leu Asp Ala Phe Leu Asn Leu Lys Asp Phe Ile
130 135 140
Ser Arg Phe Glu Val Met Pro Pro Ser Ser Phe Leu Phe Asp Ala Pro
145 150 155 160
Cys Ser Phe Leu Ser Phe Gln Met Leu Ser Gln Ser Trp Ser Tyr Thr
165 170 175
Lys Asn Asn Ser Tyr Val Leu Ser Thr Gly Phe Met Pro Gly Ile Met
180 185 190
Pro Ser Thr Leu Tyr Leu Ser Cys Arg Ile
195 200

<210> 2575

<211> 147

<212> PRT

<213> Homo sapiens

<400> 2575

Met Gln Gly Pro Gln Leu Met Tyr Leu Trp Lys Glu Ala Lys Pro Glu

1 5 10 15

Asp Leu Met Asp Ser Lys Leu Arg Cys Val Phe Glu Leu Pro Ala Glu

20 25 30

Asn Asp Lys Pro His Asp Val Glu Ile Asn Lys Ile Ile Ser Thr Thr

35 40 45

Ala Ser Lys Thr Glu Thr Pro Ile Val Ser Lys Ser Leu Ser Ser Ser

50 55 60

Leu Asp Asp Thr Glu Val Lys Lys Val Met Glu Glu Cys Lys Arg Leu

65 70 75 80

Gln Gly Glu Val Gln Arg Leu Arg Glu Glu Asn Lys Gln Phe Lys Glu

85 90 95

Glu Asp Gly Leu Arg Met Arg Lys Thr Val Gln Ser Asn Ser Pro Ile

100 105 110

Ser Ala Leu Ala Pro Thr Gly Lys Glu Glu Gly Leu Ser Thr Arg Leu

115 120 125

Leu Ala Leu Val Val Leu Phe Phe Ile Val Gly Val Ile Ile Gly Lys

130 135 140

Ile Ala Leu

145

<210> 2576

<211> 249

<212> PRT

<213> Homo sapiens

<400> 2576

Met	Val	Asn	Gly	Ser	Ser	Ser	Cys	Glu	Gly	Arg	Val	Glu	Phe	Gln	Val
1				5					10					15	
Gln	Gly	Ser	Trp	Ala	Pro	Leu	Cys	Ala	Thr	His	Trp	Asp	Ile	Ala	Asp
				20				25					30		
Ala	Thr	Val	Leu	Cys	His	Gln	Leu	Asn	Cys	Gly	Asn	Ala	Val	Ala	Ala
				35				40					45		
Pro	Gly	Gly	Gly	His	Phe	Gly	Asp	Gly	Asp	Ala	Ala	Ile	Trp	Pro	Asp
				50				55					60		
Ala	Phe	His	Cys	Glu	Gly	Thr	Glu	Ser	Tyr	Leu	Trp	Asn	Cys	Pro	Val
65						70					75				80
Ser	Thr	Leu	Gly	Ala	Pro	Ala	Cys	Ala	Pro	Gly	Asn	Thr	Ala	Ser	Ala
						85					90				95
Val	Cys	Ser	Gly	Leu	Ala	His	Ala	Leu	Arg	Leu	Arg	Glu	Gly	Gln	Ser
						100					105				110
Arg	Cys	Asp	Gly	Arg	Val	Glu	Val	Ser	Leu	Asp	Gly	Val	Trp	Gly	Arg
						115					120				125
Val	Leu	Asp	Asp	Ala	Trp	Asp	Leu	Arg	Gly	Ala	Gly	Val	Val	Cys	Arg
						130					135				140
Gln	Leu	Gly	Cys	Arg	Gly	Ala	Gln	Gln	Ala	Tyr	Asp	Ala	Pro	Ala	Pro
145											150				155
Ser	Arg	Gly	Ser	Val	Gln	Val	Ala	Leu	Ser	Arg	Val	Arg	Cys	Leu	Gly
											165				170
Thr	Glu	Thr	Arg	Leu	Thr	Gln	Cys	Asn	Val	Ser	Ala	Thr	Leu	Gln	Glu
											180				185
Pro	Ala	Gly	Thr	Ser	Arg	Asp	Ala	Gly	Val	Val	Cys	Ser	Gly	Ser	Leu
											195				200
Arg	Val	Arg	Leu	Ala	Ala	Gly	Pro	Gly	Arg	Cys	Thr	Gly	Ala	Arg	Gly
											210				215
Ala	Pro	Cys	Val	Thr	Met	Pro	Gly	Ser	Cys	Gly	Thr	Arg	Thr	Trp	Ser
															220

225 230 235 240
Ala Gly Ser Trp Ala Val Ala Ala Pro
245

<210> 2577

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2577

Met Asp Leu Gly Thr Gly Ser Arg Arg Tyr Pro Gly Arg Arg Thr Gly
1 5 10 15
Ser Trp Ala Ala Gln Asp Gly Ser Thr Gly Pro Glu Gly Arg Thr Val
20 25 30
Ser Ala Cys Ala Lys Ala Leu Arg Ala Lys Lys Ala Thr Gly Val Asn
35 40 45
Gln Ser His Pro Gly Glu Ala Arg Ala Gly Ala Ala Glu Ala Arg Asn
50 55 60
Leu Pro Gln Gly Ala Thr Gly Gly Arg Gln Glu Ala Glu Gly Cys Pro
65 70 75 80
Gln Ala Gly Ala Pro Gly Glu Gln Arg Ser Ser Gln Arg Leu His Val
85 90 95
Leu Gly Trp Gly Val Gly Thr Lys Ala Trp Gly Pro Gly Ala His Gln
100 105 110
Gly Lys Gly Ser
115

<210> 2578

<211> 1007

<212> PRT

<213> Homo sapiens

<400> 2578

Met Leu Val Pro Leu Leu Leu Gln Tyr Leu Glu Thr Leu Ser Gly Leu

1 5 10 15

Val Asp Ser Asn Leu Asn Cys Gly Pro Val Leu Thr Trp Met Glu Leu

20 25 30

Asp Asn His Gly Arg Arg Leu Leu Leu Ser Glu Glu Ala Ser Leu Asn

35 40 45

Ile Pro Ala Val Ala Ala Ala His Val Ile Lys Arg Tyr Thr Ala Gln

50 55 60

Ala Pro Asp Glu Leu Ser Phe Glu Val Gly Asp Ile Val Ser Val Ile

65 70 75 80

Asp Met Pro Pro Thr Glu Asp Arg Ser Trp Trp Arg Gly Lys Arg Gly

85 90 95

Phe Gln Val Gly Phe Phe Pro Ser Glu Cys Val Glu Leu Phe Thr Glu

100 105 110

Arg Pro Gly Pro Gly Leu Lys Ala Asp Ala Asp Gly Pro Pro Cys Gly

115 120 125

Ile Pro Ala Pro Gln Gly Ile Ser Ser Leu Thr Ser Ala Val Pro Arg

130 135 140

Pro Arg Gly Lys Leu Ala Gly Leu Leu Arg Thr Phe Met Arg Ser Arg

145 150 155 160

Pro Ser Arg Gln Arg Leu Arg Gln Arg Gly Ile Leu Arg Gln Arg Val

165 170 175

Phe Gly Cys Asp Leu Gly Glu His Leu Ser Asn Ser Gly Gln Asp Val

180	185	190
Pro Gln Val Leu Arg Cys Cys Ser Glu Phe Ile Glu Ala His Gly Val		
195	200	205
Val Asp Gly Ile Tyr Arg Leu Ser Gly Val Ser Ser Asn Ile Gln Arg		
210	215	220
Leu Arg His Glu Phe Asp Ser Glu Arg Ile Pro Glu Leu Ser Gly Pro		
225	230	235
Ala Phe Leu Gln Asp Ile His Ser Val Ser Ser Leu Cys Lys Leu Tyr		
245	250	255
Phe Arg Glu Leu Pro Asn Pro Leu Leu Thr Tyr Gln Leu Tyr Gly Lys		
260	265	270
Phe Ser Glu Ala Met Ser Val Pro Gly Glu Glu Glu Arg Leu Val Arg		
275	280	285
Val His Asp Val Ile Gln Gln Leu Pro Pro Pro His Tyr Arg Thr Leu		
290	295	300
Glu Tyr Leu Leu Arg His Leu Ala Arg Met Ala Arg His Ser Ala Asn		
305	310	315
Thr Ser Met His Ala Arg Asn Leu Ala Ile Val Trp Ala Pro Asn Leu		
325	330	335
Leu Arg Ser Met Glu Leu Glu Ser Val Gly Met Gly Gly Ala Ala Ala		
340	345	350
Phe Arg Glu Val Arg Val Gln Ser Val Val Val Glu Phe Leu Leu Thr		
355	360	365
His Val Asp Val Leu Phe Ser Asp Thr Phe Thr Ser Ala Gly Leu Asp		
370	375	380
Pro Ala Gly Arg Cys Leu Leu Pro Arg Pro Lys Ser Leu Ala Gly Ser		
385	390	395
Cys Pro Ser Thr Arg Leu Leu Thr Leu Glu Glu Ala Gln Ala Arg Thr		
405	410	415

Gln Gly Arg Leu Gly Thr Pro Thr Glu Pro Thr Thr Pro Lys Ala Pro
 420 425 430
 Ala Ser Pro Ala Glu Arg Arg Lys Gly Glu Arg Gly Glu Lys Gln Arg
 435 440 445
 Lys Pro Gly Gly Ser Ser Trp Lys Thr Phe Phe Ala Leu Gly Arg Gly
 450 455 460
 Pro Ser Val Pro Arg Lys Lys Pro Leu Pro Trp Leu Gly Gly Thr Arg
 465 470 475 480
 Ala Pro Pro Gln Pro Ser Gly Ser Arg Pro Asp Thr Val Thr Leu Arg
 485 490 495
 Ser Ala Lys Ser Glu Glu Ser Leu Ser Ser Gln Ala Ser Gly Ala Gly
 500 505 510
 Leu Gln Arg Leu His Arg Leu Arg Arg Pro His Ser Ser Ser Asp Ala
 515 520 525
 Phe Pro Val Gly Pro Ala Pro Ala Gly Ser Cys Glu Ser Leu Ser Ser
 530 535 540
 Ser Ser Ser Ser Glu Ser Ser Ser Ser Glu Ser Ser Ser Ser Ser Ser
 545 550 555 560
 Glu Ser Ser Ala Ala Gly Leu Gly Ala Leu Ser Gly Ser Pro Ser His
 565 570 575
 Arg Thr Ser Ala Trp Leu Asp Asp Gly Asp Glu Leu Asp Phe Ser Pro
 580 585 590
 Pro Arg Cys Leu Glu Gly Leu Arg Gly Leu Asp Phe Asp Pro Leu Thr
 595 600 605
 Phe Arg Cys Ser Ser Pro Thr Pro Gly Asp Pro Ala Pro Pro Ala Ser
 610 615 620
 Pro Ala Pro Pro Ala Pro Ala Ser Ala Phe Pro Pro Arg Val Thr Pro
 625 630 635 640
 Gln Ala Ile Ser Pro Arg Gly Pro Thr Ser Pro Ala Ser Pro Ala Ala

645 650 655
Leu Asp Ile Ser Glu Pro Leu Ala Val Ser Val Pro Pro Ala Val Leu
660 665 670
Glu Leu Leu Gly Ala Gly Gly Ala Pro Ala Ser Ala Thr Pro Thr Pro
675 680 685
Ala Leu Ser Pro Gly Arg Ser Leu Arg Pro His Leu Ile Pro Leu Leu
690 695 700
Leu Arg Gly Ala Glu Ala Pro Leu Thr Asp Ala Cys Gln Gln Glu Met
705 710 715 720
Cys Ser Lys Leu Arg Gly Ala Gln Gly Pro Leu Gly Pro Asp Met Glu
725 730 735
Ser Pro Leu Pro Pro Pro Pro Leu Ser Leu Leu Arg Pro Gly Gly Ala
740 745 750
Pro Pro Pro Pro Pro Lys Asn Pro Ala Arg Leu Met Ala Leu Ala Leu
755 760 765
Ala Glu Arg Ala Gln Gln Val Ala Glu Gln Gln Ser Gln Gln Glu Cys
770 775 780
Gly Gly Thr Pro Pro Ala Ser Gln Ser Pro Phe His Arg Ser Leu Ser
785 790 795 800
Leu Glu Val Gly Gly Glu Pro Leu Gly Thr Ser Gly Ser Gly Pro Pro
805 810 815
Pro Asn Ser Leu Ala His Pro Gly Ala Trp Val Pro Gly Pro Pro Pro
820 825 830
Tyr Leu Pro Arg Gln Gln Ser Asp Gly Ser Leu Leu Arg Ser Gln Arg
835 840 845
Pro Met Gly Thr Ser Arg Arg Gly Leu Arg Gly Pro Ala Gln Val Pro
850 855 860
Thr Pro Gly Phe Phe Ser Pro Ala Pro Arg Glu Cys Leu Pro Pro Phe
865 870 875 880

Leu Gly Val Pro Lys Pro Gly Leu Tyr Pro Leu Gly Pro Pro Ser Phe
 885 890 895
 Gln Pro Ser Ser Pro Ala Pro Val Trp Arg Ser Ser Leu Gly Pro Pro
 900 905 910
 Ala Pro Leu Asp Arg Gly Glu Asn Leu Tyr Tyr Glu Ile Gly Ala Ser
 915 920 925
 Glu Gly Ser Pro Tyr Ser Gly Pro Thr Arg Ser Trp Ser Pro Phe Arg
 930 935 940
 Ser Met Pro Pro Asp Arg Leu Asn Ala Ser Tyr Gly Met Leu Gly Gln
 945 950 955 960
 Ser Pro Pro Leu His Arg Ser Pro Asp Phe Leu Leu Ser Tyr Pro Pro
 965 970 975
 Ala Pro Ser Cys Phe Pro Pro Asp His Leu Gly Tyr Ser Pro Pro Ser
 980 985 990
 Thr Leu Leu Gly Ala Leu His Arg Leu Ser Pro Ser Thr Ser Thr
 995 1000 1005

<210> 2579

<211> 792

<212> PRT

<213> Homo sapiens

<400> 2579

Met Arg Ser Leu Ser Gln Ser Gln Gly Asp Pro Leu Pro Pro Ala His
 1 5 10 15
 Thr Gly Thr Tyr Arg Thr Ser Thr Ala Pro Ser Ser Pro Gly Val Asp
 20 25 30
 Ser Val Pro Leu Gln Arg Thr Gly Ser Gln His Gly Pro Gln Asn Ala

35	40	45
Ala Ala Ala Thr Phe Gln Arg Ala Ser Tyr Ala Ala Gly Pro Ala Ser		
50	55	60
Asn Tyr Ala Asp Pro Tyr Arg Gln Leu Gln Tyr Cys Pro Ser Val Glu		
65	70	75
Ser Pro Tyr Ser Lys Ser Gly Pro Ala Leu Pro Pro Glu Gly Thr Leu		
85	90	95
Ala Arg Ser Pro Ser Ile Asp Ser Ile Gln Lys Asp Pro Arg Glu Phe		
100	105	110
Gly Trp Arg Asp Pro Glu Leu Pro Glu Val Ile Gln Met Leu Gln His		
115	120	125
Gln Phe Pro Ser Val Gln Ser Asn Ala Ala Ala Tyr Leu Gln His Leu		
130	135	140
Cys Phe Gly Asp Asn Lys Ile Lys Ala Glu Ile Arg Arg Gln Gly Gly		
145	150	155
Ile Gln Leu Leu Val Asp Leu Leu Asp His Arg Met Thr Glu Val His		
165	170	175
Arg Ser Ala Cys Gly Ala Leu Arg Asn Leu Val Tyr Gly Lys Ala Asn		
180	185	190
Asp Asp Asn Lys Ile Ala Leu Lys Asn Cys Gly Gly Ile Pro Ala Leu		
195	200	205
Val Arg Leu Leu Arg Lys Thr Thr Asp Leu Glu Ile Arg Glu Leu Val		
210	215	220
Thr Gly Val Leu Trp Asn Leu Ser Ser Cys Asp Ala Leu Lys Met Pro		
225	230	235
Ile Ile Gln Asp Ala Leu Ala Val Leu Thr Asn Ala Val Ile Ile Pro		
245	250	255
His Ser Gly Trp Glu Asn Ser Pro Leu Gln Asp Asp Arg Lys Ile Gln		
260	265	270

Leu His Ser Ser Gln Val Leu Arg Asn Ala Thr Gly Cys Leu Arg Asn
275 280 285

Val Ser Ser Ala Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys Asp
290 295 300

Gly Leu Thr Asp Ala Leu Leu Tyr Val Ile Gln Ser Ala Leu Gly Ser
305 310 315 320

Ser Glu Ile Asp Ser Lys Thr Val Glu Asn Cys Val Cys Ile Leu Arg
325 330 335

Asn Leu Ser Tyr Arg Leu Ala Ala Glu Thr Ser Gln Gly Gln His Met
340 345 350

Gly Thr Asp Glu Leu Asp Gly Leu Leu Cys Gly Glu Ala Asn Gly Lys
355 360 365

Asp Ala Glu Ser Ser Gly Cys Trp Gly Lys Lys Lys Lys Lys Lys Lys
370 375 380

Ser Gln Asp Gln Trp Asp Gly Val Gly Pro Leu Pro Asp Cys Ala Glu
385 390 395 400

Pro Pro Lys Gly Ile Gln Met Leu Trp His Pro Ser Ile Val Lys Pro
405 410 415

Tyr Leu Thr Leu Leu Ser Glu Cys Ser Asn Pro Asp Thr Leu Glu Gly
420 425 430

Ala Ala Gly Ala Leu Gln Asn Leu Ala Ala Gly Ser Trp Lys Trp Ser
435 440 445

Val Tyr Ile Arg Ala Ala Val Arg Lys Glu Lys Gly Leu Pro Ile Leu
450 455 460

Val Glu Leu Leu Arg Ile Asp Asn Asp Arg Val Val Cys Ala Val Ala
465 470 475 480

Thr Ala Leu Arg Asn Met Ala Leu Asp Val Arg Asn Lys Glu Leu Ile
485 490 495

Gly Lys Tyr Ala Met Arg Asp Leu Val His Arg Leu Pro Gly Gly Asn

500 505 510
Asn Ser Asn Asn Thr Ala Ser Lys Ala Met Ser Asp Asp Thr Val Thr
515 520 525
Ala Val Cys Cys Thr Leu His Glu Val Ile Thr Lys Asn Met Glu Asn
530 535 540
Ala Lys Ala Leu Arg Asp Ala Gly Gly Ile Glu Lys Leu Val Gly Ile
545 550 555 560
Ser Lys Ser Lys Gly Asp Lys His Ser Pro Lys Val Val Lys Ala Ala
565 570 575
Ser Gln Val Leu Asn Ser Met Trp Gln Tyr Arg Gly Leu Arg Ser Leu
580 585 590
Tyr Lys Lys Asp Gly Trp Ser Gln Tyr His Phe Val Ala Ser Ser Ser
595 600 605
Thr Ile Glu Arg Asp Arg Gln Arg Pro Tyr Ser Ser Ser Arg Thr Pro
610 615 620
Ser Ile Ser Pro Val Arg Val Ser Pro Asn Asn Arg Ser Ala Ser Ala
625 630 635 640
Pro Ala Ser Pro Arg Glu Met Ile Ser Leu Lys Glu Arg Lys Thr Asp
645 650 655
Tyr Glu Cys Thr Gly Ser Asn Ala Thr Tyr His Gly Ala Lys Gly Glu
660 665 670
His Thr Ser Arg Lys Asp Ala Met Thr Ala Gln Asn Thr Gly Ile Ser
675 680 685
Thr Leu Tyr Arg Asn Ser Tyr Gly Ala Pro Ala Glu Asp Ile Lys His
690 695 700
Asn Gln Val Ser Ala Gln Pro Val Pro Gln Glu Pro Ser Arg Lys Asp
705 710 715 720
Tyr Glu Thr Tyr Gln Pro Phe Gln Asn Ser Thr Arg Asn Tyr Asp Glu
725 730 735

Ser Phe Phe Glu Asp Gln Val His His Arg Pro Pro Ala Ser Glu Tyr
 740 745 750
 Thr Met His Leu Gly Leu Lys Ser Thr Gly Asn Tyr Val Asp Phe Tyr
 755 760 765
 Ser Ala Ala Arg Pro Tyr Ser Glu Leu Asn Tyr Glu Thr Ser His Tyr
 770 775 780
 Pro Ala Ser Pro Asp Ser Trp Val
 785 790

<210> 2580

<211> 282

<212> PRT

<213> Homo sapiens

<400> 2580

Met Glu Val Lys Asn Leu Pro Gln Thr Asn Phe Arg Arg Leu Pro Phe
 1 5 10 15
 Asp His Cys Ser Leu Ser Leu Gln Pro Phe Val Tyr Pro Val Cys Thr
 20 25 30
 Pro Asp Gly Ile Val Phe Asp Leu Leu Asn Ile Val Pro Trp Leu Lys
 35 40 45
 Lys Tyr Gly Thr Asn Pro Ser Asn Gly Glu Lys Leu Asp Gly Arg Ser
 50 55 60
 Leu Ile Lys Leu Asn Phe Ser Lys Asn Ser Glu Gly Lys Tyr His Cys
 65 70 75 80
 Pro Val Leu Phe Thr Val Phe Thr Asn Asn Thr His Ile Val Ala Val
 85 90 95
 Arg Thr Thr Gly Asn Val Tyr Ala Tyr Glu Ala Val Glu Gln Leu Asn

100	105	110	
Ile Lys Ala Lys Asn Phe Arg Asp Leu Leu Thr Asp Glu Pro Phe Ser			
115	120	125	
Arg Gln Asp Ile Ile Thr Leu Gln Asp Pro Thr Asn Leu Asp Lys Phe			
130	135	140	
Asn Val Ser Asn Phe Tyr His Val Lys Asn Asn Met Lys Ile Ile Asp			
145	150	155	160
Pro Asp Glu Glu Lys Ala Lys Gln Asp Pro Ser Tyr Tyr Leu Lys Asn			
165	170	175	
Thr Asn Ala Glu Thr Arg Glu Thr Leu Gln Glu Leu Tyr Lys Glu Phe			
180	185	190	
Lys Gly Asp Glu Ile Leu Ala Ala Thr Met Lys Ala Pro Glu Lys Lys			
195	200	205	
Lys Val Asp Lys Leu Asn Ala Asp Leu Ala Met Leu Ser Arg Leu Val			
210	215	220	
Leu Asn Ser Trp Leu Gln Val Arg Ala Ser Cys Leu Gly Leu Arg Lys			
225	230	235	240
Cys Trp Asn Tyr Arg Pro Thr Ile Pro Gln Gly Arg Ser Ala Leu Pro			
245	250	255	
Ser Pro Pro Pro Arg Trp Ser Arg Arg Pro His Met Lys Gln Leu Pro			
260	265	270	
Ser Thr Arg Met Cys Cys Ala Thr Ser Leu			
275	280		

<210> 2581

<211> 135

<212> PRT

<213> Homo sapiens

<400> 2581

Met Leu Glu Asn His Gln Met Ala Glu Ala Asn Trp Gln Pro Val Ser
1 5 10 15
Leu Val Ser Leu Arg Gly Ala Ser Leu Pro Cys Val Ile Val Leu Gly
20 25 30
Phe Arg Arg Val Asn Leu Glu Cys Leu Gly Val Pro Thr Ser Ser Ser
35 40 45
Ala Leu Ser Phe Thr Cys Val Trp Tyr Ser Val Ile Ile Thr Ala Gly
50 55 60
Met Ala Tyr Ile Phe Leu Ile Gln Leu Ile Asn Ile Ser Tyr Asn Val
65 70 75 80
Thr Glu Arg Glu Val Gln Gln Ala Leu Arg Gln Lys Thr Gly Arg Arg
85 90 95
Leu Leu Cys Gly Leu Ile Val Asp Thr Gly Gln Tyr Asn Arg Gly Phe
100 105 110
Leu Arg Asn Trp His Gln Phe Ser Thr Leu Gly Thr Arg Ala Phe His
115 120 125
His Pro Ala Glu Asp Ile Val
130 135

<210> 2582

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2582

Met Ser Arg His Leu Asn Asn Tyr Phe Ala Phe Ser Val Thr Ala Pro

1	5	10	15
Ser Pro Val Thr Val Trp Ser Phe Ser Ile Ser Ile Gly Gly Arg Gly			
20	25	30	
Gly Pro Gly Gly Ser Pro Gly Pro Val Ser Gln Pro Ala Phe Trp Ala			
35	40	45	
Val Gly Glu Val Glu Asp Gln Pro Gly Gly Glu Val Gly Ser Arg Gly			
50	55	60	
Arg Ser Trp Pro Met Arg Cys Ala Val Pro Phe Gln Asn Trp Ala Arg			
65	70	75	80
Val Ser Leu Arg Leu Ala Leu Pro Cys Pro Pro Gln Asp Glu Arg Arg			
85	90	95	
Pro Gly Thr Gly Leu Thr Glu Trp Pro Leu Pro Gly Ser Arg His Arg			
100	105	110	
Gly Gln His Leu Gln Arg Leu Gly Leu Ala Pro Glu Gln Phe Leu Cys			
115	120	125	
Ala			

<210> 2583

<211> 1188

<212> PRT

<213> Homo sapiens

<400> 2583

Met Leu Asn Gly Ala Gly Leu Asp Lys Ala Leu Lys Met Ser Leu Pro			
1	5	10	15
Arg Arg Ser Arg Ile Arg Ser Ser Val Gly Pro Val Arg Ser Ser Leu			
20	25	30	

Gly Tyr Lys Lys Ala Glu Asp Glu Met Ser Arg Ala Thr Ser Val Gly
 35 40 45
 Asp Gln Leu Glu Ala Pro Ala Arg Thr Ile Tyr Leu Asn Gln Pro His
 50 55 60
 Leu Asn Lys Phe Arg Asp Asn Gln Ile Ser Thr Ala Lys Tyr Ser Val
 65 70 75 80
 Leu Thr Phe Leu Pro Arg Phe Leu Tyr Glu Gln Ile Arg Arg Ala Ala
 85 90 95
 Asn Ala Phe Phe Leu Phe Ile Ala Leu Leu Gln Gln Ile Pro Asp Val
 100 105 110
 Ser Pro Thr Gly Arg Tyr Thr Thr Leu Val Pro Leu Ile Ile Ile Leu
 115 120 125
 Thr Ile Ala Gly Ile Lys Glu Ile Val Glu Asp Phe Lys Arg His Lys
 130 135 140
 Ala Asp Asn Ala Val Asn Lys Lys Lys Thr Ile Val Leu Arg Asn Gly
 145 150 155 160
 Met Trp His Thr Ile Met Trp Lys Glu Val Ala Val Gly Asp Ile Val
 165 170 175
 Lys Val Val Asn Gly Gln Tyr Leu Pro Ala Asp Val Val Leu Leu Ser
 180 185 190
 Ser Ser Glu Pro Gln Ala Met Cys Tyr Val Glu Thr Ala Asn Leu Asp
 195 200 205
 Gly Glu Thr Asn Leu Lys Ile Arg Gln Gly Leu Ser His Thr Ala Asp
 210 215 220
 Met Gln Thr Arg Glu Val Leu Met Lys Leu Ser Gly Thr Ile Glu Cys
 225 230 235 240
 Glu Gly Pro Asn Arg His Leu Tyr Asp Phe Thr Gly Asn Leu Asn Leu
 245 250 255
 Asp Gly Lys Ser Leu Val Ala Leu Gly Pro Asp Gln Ile Leu Leu Arg

260	265	270
Gly Thr Gln Leu Arg Asn Thr Gln Trp Val Phe Gly Ile Val Val Tyr		
275	280	285
Thr Gly His Asp Thr Lys Leu Met Gln Asn Ser Thr Lys Ala Pro Leu		
290	295	300
Lys Arg Ser Asn Val Glu Lys Val Thr Asn Val Gln Ile Leu Val Leu		
305	310	315
Phe Gly Ile Leu Leu Val Met Ala Leu Val Ser Ser Ala Gly Ala Leu		
325	330	335
Tyr Trp Asn Arg Ser His Gly Glu Lys Asn Trp Tyr Ile Lys Lys Met		
340	345	350
Asp Thr Thr Ser Asp Asn Phe Gly Tyr Asn Leu Leu Thr Phe Ile Ile		
355	360	365
Leu Tyr Asn Asn Leu Ile Pro Ile Ser Leu Leu Val Thr Leu Glu Val		
370	375	380
Val Lys Tyr Thr Gln Ala Leu Phe Ile Asn Trp Asp Thr Asp Met Tyr		
385	390	395
Tyr Ile Gly Asn Asp Thr Pro Ala Met Ala Arg Thr Ser Asn Leu Asn		
405	410	415
Glu Glu Leu Gly Gln Val Lys Tyr Leu Phe Ser Asp Lys Thr Gly Thr		
420	425	430
Leu Thr Cys Asn Ile Met Asn Phe Lys Lys Cys Ser Ile Ala Gly Val		
435	440	445
Thr Tyr Gly His Phe Pro Glu Leu Ala Arg Glu Pro Ser Ser Asp Asp		
450	455	460
Phe Cys Arg Met Pro Pro Pro Cys Ser Asp Ser Cys Asp Phe Asp Asp		
465	470	475
Pro Arg Leu Leu Lys Asn Ile Glu Asp Arg His Pro Thr Ala Pro Cys		
485	490	495

Ile Gln Glu Phe Leu Thr Leu Leu Ala Val Cys His Thr Val Val Pro
500 505 510
Glu Lys Asp Gly Asp Asn Ile Ile Tyr Gln Ala Ser Ser Pro Asp Glu
515 520 525
Ala Ala Leu Val Lys Gly Ala Lys Lys Leu Gly Phe Val Phe Thr Ala
530 535 540
Arg Thr Pro Phe Ser Val Ile Ile Glu Ala Met Gly Gln Glu Gln Thr
545 550 555 560
Phe Gly Ile Leu Asn Val Leu Glu Phe Ser Ser Asp Lys Lys Arg Met
565 570 575
Ser Val Ile Val Arg Thr Pro Ser Gly Arg Leu Arg Leu Tyr Cys Lys
580 585 590
Gly Ala Asp Asn Val Ile Phe Glu Arg Leu Ser Lys Asp Ser Lys Tyr
595 600 605
Met Glu Glu Thr Leu Cys His Leu Glu Tyr Phe Ala Thr Glu Gly Leu
610 615 620
Arg Thr Leu Cys Val Ala Tyr Ala Asp Leu Ser Glu Asn Glu Tyr Glu
625 630 635 640
Glu Trp Leu Lys Val Tyr Gln Glu Ala Ser Thr Ile Leu Lys Asp Arg
645 650 655
Ala Gln Arg Leu Glu Glu Cys Tyr Glu Ile Ile Glu Lys Asn Leu Leu
660 665 670
Leu Leu Gly Ala Thr Ala Ile Glu Asp Arg Leu Gln Ala Gly Val Pro
675 680 685
Glu Thr Ile Ala Thr Leu Leu Lys Ala Glu Ile Lys Ile Trp Val Leu
690 695 700
Thr Gly Asp Lys Gln Glu Thr Ala Ile Asn Ile Gly Tyr Ser Cys Arg
705 710 715 720
Leu Val Ser Gln Asn Met Ala Leu Ile Leu Leu Lys Glu Asp Ser Leu

725 730 735
Asp Ala Thr Arg Ala Ala Ile Thr Gln His Cys Thr Asp Leu Gly Asn
740 745 750
Leu Leu Gly Lys Glu Asn Asp Val Ala Leu Ile Ile Asp Gly His Thr
755 760 765
Leu Lys Tyr Ala Leu Ser Phe Glu Val Arg Arg Ser Phe Leu Asp Leu
770 775 780
Ala Leu Ser Cys Lys Ala Val Ile Cys Cys Arg Val Ser Pro Leu Gln
785 790 795 800
Lys Ser Glu Ile Val Asp Val Val Lys Lys Arg Val Lys Ala Ile Thr
805 810 815
Leu Ala Ile Gly Asp Gly Ala Asn Asp Val Gly Met Ile Gln Thr Ala
820 825 830
His Val Gly Val Gly Ile Ser Gly Asn Glu Gly Met Gln Ala Thr Asn
835 840 845
Asn Ser Asp Tyr Ala Ile Ala Gln Phe Ser Tyr Leu Glu Lys Leu Leu
850 855 860
Leu Val His Gly Ala Trp Ser Tyr Asn Arg Val Thr Lys Cys Ile Leu
865 870 875 880
Tyr Cys Phe Tyr Lys Asn Val Val Leu Tyr Ile Ile Glu Leu Trp Phe
885 890 895
Ala Phe Val Asn Gly Phe Ser Gly Gln Ile Leu Phe Glu Arg Trp Cys
900 905 910
Ile Gly Leu Tyr Asn Val Ile Phe Thr Ala Leu Pro Pro Phe Thr Leu
915 920 925
Gly Ile Phe Glu Arg Ser Cys Thr Gln Glu Ser Met Leu Arg Phe Pro
930 935 940
Gln Leu Tyr Lys Ile Thr Gln Asn Gly Glu Gly Phe Asn Thr Lys Val
945 950 955 960

Phe Trp Gly His Cys Ile Asn Ala Leu Val His Ser Leu Ile Leu Phe
965 970 975

Trp Phe Pro Met Lys Ala Leu Glu His Asp Thr Val Leu Thr Ser Gly
980 985 990

His Ala Thr Asp Tyr Leu Phe Val Gly Asn Ile Val Tyr Thr Tyr Val
995 1000 1005

Val Val Thr Val Cys Leu Lys Ala Gly Leu Glu Thr Thr Ala Trp Thr
1010 1015 1020

Lys Phe Ser His Leu Ala Val Trp Gly Ser Met Leu Thr Trp Leu Val
1025 1030 1035 1040

Phe Phe Gly Ile Tyr Ser Thr Ile Trp Pro Thr Ile Pro Ile Ala Pro
1045 1050 1055

Asp Met Arg Gly Gln Ala Thr Met Val Leu Ser Ser Ala His Phe Trp
1060 1065 1070

Leu Gly Leu Phe Leu Val Pro Thr Ala Cys Leu Ile Glu Asp Val Ala
1075 1080 1085

Trp Arg Ala Ala Lys His Thr Cys Lys Lys Thr Leu Leu Glu Glu Val
1090 1095 1100

Gln Glu Leu Glu Thr Lys Ser Arg Val Leu Gly Lys Ala Val Leu Arg
1105 1110 1115 1120

Asp Ser Asn Gly Lys Arg Leu Asn Glu Arg Asp Arg Leu Ile Lys Arg
1125 1130 1135

Leu Gly Arg Lys Thr Pro Pro Thr Leu Phe Arg Gly Ser Ser Leu Gln
1140 1145 1150

Gln Gly Val Pro His Gly Tyr Ala Phe Ser Gln Glu Glu His Gly Ala
1155 1160 1165

Val Ser Gln Glu Glu Val Ile Arg Ala Tyr Asp Thr Thr Lys Lys Lys
1170 1175 1180

Ser Arg Lys Lys

1185

<210> 2584

<211> 1287

<212> PRT

<213> Homo sapiens

<400> 2584

Met Val Pro Gly Glu Glu Asn Gln Leu Val Pro Lys Glu Ala Pro Leu
1 5 10 15
Asp His Thr Ser Asp Lys Ser Leu Leu Asp Ala Asn Phe Glu Pro Gly
20 25 30
Lys Lys Asn Phe Leu His Leu Thr Asp Lys Asp Gly Glu Gln Pro Gln
35 40 45
Ile Leu Leu Glu Asp Ser Ser Ala Gly Glu Asp Ser Val His Asp Arg
50 55 60
Phe Ile Gly Pro Leu Pro Arg Glu Gly Ser Val Gly Ser Thr Ser Asp
65 70 75 80
Tyr Val Ser Gln Ser Tyr Ser Tyr Ser Ser Ile Leu Asn Lys Ser Glu
85 90 95
Thr Gly Tyr Val Gly Leu Val Asn Gln Ala Met Thr Cys Tyr Leu Asn
100 105 110
Ser Leu Leu Gln Thr Leu Phe Met Thr Pro Glu Phe Arg Asn Ala Leu
115 120 125
Tyr Lys Trp Glu Phe Glu Glu Ser Glu Glu Asp Pro Val Thr Ser Ile
130 135 140
Pro Tyr Gln Leu Gln Arg Leu Phe Val Leu Leu Gln Thr Ser Lys Lys
145 150 155 160

Arg Ala Ile Glu Thr Thr Asp Val Thr Arg Ser Phe Gly Trp Asp Ser
165 170 175
Ser Glu Ala Trp Gln Gln His Asp Val Gln Glu Leu Cys Arg Val Met
180 185 190
Phe Asp Ala Leu Glu Gln Lys Trp Lys Gln Thr Glu Gln Ala Asp Leu
195 200 205
Ile Asn Glu Leu Tyr Gln Gly Lys Leu Lys Asp Tyr Val Arg Cys Leu
210 215 220
Glu Cys Gly Tyr Glu Gly Trp Arg Ile Asp Thr Tyr Leu Asp Ile Pro
225 230 235 240
Leu Val Ile Arg Pro Tyr Gly Ser Ser Gln Ala Leu Ala Ser Val Glu
245 250 255
Glu Ala Leu His Ala Phe Ile Gln Pro Glu Ile Leu Asp Gly Pro Asn
260 265 270
Gln Tyr Phe Cys Glu Arg Cys Lys Lys Lys Cys Asp Ala Arg Lys Gly
275 280 285
Leu Arg Phe Leu His Phe Pro Tyr Leu Leu Thr Leu Gln Leu Lys Arg
290 295 300
Phe Asp Phe Asp Tyr Thr Thr Met His Arg Ile Lys Leu Asn Asp Arg
305 310 315 320
Met Thr Phe Pro Glu Glu Leu Asp Met Ser Thr Phe Ile Asp Val Glu
325 330 335
Asp Glu Lys Ser Pro Gln Thr Glu Ser Cys Thr Asp Ser Gly Ala Glu
340 345 350
Asn Glu Gly Ser Cys His Ser Asp Gln Met Ser Asn Asp Phe Ser Asn
355 360 365
Asp Asp Gly Val Asp Glu Gly Ile Cys Leu Glu Thr Asn Ser Gly Thr
370 375 380
Glu Lys Ile Ser Lys Ser Gly Leu Glu Lys Asn Ser Leu Ile Tyr Glu

385 390 395 400
Leu Phe Ser Val Met Ala His Ser Gly Ser Ala Ala Gly Gly His Tyr
 405 410 415
Tyr Ala Cys Ile Lys Ser Phe Ser Asp Glu Gln Trp Tyr Ser Phe Asn
 420 425 430
Asp Gln His Val Ser Arg Ile Thr Gln Glu Asp Ile Lys Lys Thr His
 435 440 445
Gly Gly Ser Ser Gly Ser Arg Gly Tyr Tyr Ser Ser Ala Phe Ala Ser
 450 455 460
Ser Thr Asn Ala Tyr Met Leu Ile Tyr Arg Leu Lys Asp Pro Ala Arg
465 470 475 480
Asn Ala Lys Phe Leu Glu Val Asp Glu Tyr Pro Glu His Ile Lys Asn
 485 490 495
Leu Val Gln Lys Glu Arg Glu Leu Glu Glu Gln Glu Lys Arg Gln Arg
 500 505 510
Glu Ile Glu Arg Asn Thr Cys Lys Ile Lys Leu Phe Cys Leu His Pro
 515 520 525
Thr Lys Gln Val Met Met Glu Asn Lys Leu Glu Val His Lys Asp Lys
 530 535 540
Thr Leu Lys Glu Ala Val Glu Met Ala Tyr Lys Met Met Asp Leu Glu
545 550 555 560
Glu Val Ile Pro Leu Asp Cys Cys Arg Leu Val Lys Tyr Asp Glu Phe
 565 570 575
His Asp Tyr Leu Glu Arg Ser Tyr Glu Gly Glu Glu Asp Thr Pro Met
 580 585 590
Gly Leu Leu Leu Gly Gly Val Lys Ser Thr Tyr Met Phe Asp Leu Leu
 595 600 605
Leu Glu Thr Arg Lys Pro Asp Gln Val Phe Gln Ser Tyr Lys Pro Gly
 610 615 620

Glu Val Met Val Lys Val His Val Val Asp Leu Lys Ala Glu Ser Val
625 630 635 640
Ala Ala Pro Ile Thr Val Arg Ala Tyr Leu Asn Gln Thr Val Thr Glu
 645 650 655
Phe Lys Gln Leu Ile Ser Lys Ala Ile His Leu Pro Ala Glu Thr Met
 660 665 670
Arg Ile Val Leu Glu Arg Cys Tyr Asn Asp Leu Arg Leu Leu Ser Val
 675 680 685
Ser Ser Lys Thr Leu Lys Ala Glu Gly Phe Phe Arg Ser Asn Lys Val
 690 695 700
Phe Val Glu Ser Ser Glu Thr Leu Asp Tyr Gln Met Ala Phe Ala Asp
705 710 715 720
Ser His Leu Trp Lys Leu Leu Asp Arg His Ala Asn Thr Ile Arg Leu
 725 730 735
Phe Val Leu Leu Pro Glu Gln Ser Pro Val Ser Tyr Ser Lys Arg Thr
 740 745 750
Ala Tyr Gln Lys Ala Gly Gly Asp Ser Gly Asn Val Asp Asp Asp Cys
 755 760 765
Glu Arg Val Lys Gly Pro Val Gly Ser Leu Lys Ser Val Glu Ala Ile
 770 775 780
Leu Glu Glu Ser Thr Glu Lys Leu Lys Ser Leu Ser Leu Gln Gln Gln
785 790 795 800
Gln Asp Gly Asp Asn Gly Asp Ser Ser Lys Ser Thr Glu Thr Ser Asp
 805 810 815
Phe Glu Asn Ile Glu Ser Ser Leu Asn Glu Arg Asp Ser Ser Ala Ser
 820 825 830
Val Asp Asn Arg Glu Leu Glu Gln His Ile Gln Thr Ser Asp Pro Glu
 835 840 845
Asn Phe Gln Ser Glu Glu Arg Ser Asp Ser Asp Val Asn Asn Asp Arg

850 855 860
Ser Thr Ser Ser Val Asp Ser Asp Ile Leu Ser Ser Ser His Ser Ser
865 870 875 880
Asp Thr Leu Cys Asn Ala Asp Asn Ala Gln Ile Pro Leu Ala Asn Gly
 885 890 895
Leu Asp Ser His Ser Ile Thr Ser Ser Arg Arg Thr Lys Ala Asn Glu
 900 905 910
Gly Lys Lys Glu Thr Trp Asp Thr Ala Glu Glu Asp Ser Gly Thr Asp
 915 920 925
Ser Glu Tyr Asp Glu Ser Gly Lys Ser Arg Gly Glu Met Gln Tyr Met
 930 935 940
Tyr Phe Lys Ala Glu Pro Tyr Ala Ala Asp Glu Gly Ser Gly Glu Gly
945 950 955 960
His Lys Trp Leu Met Val His Val Asp Lys Arg Ile Thr Leu Ala Ala
 965 970 975
Phe Lys Gln His Leu Glu Pro Phe Val Gly Val Leu Ser Ser His Phe
 980 985 990
Lys Val Phe Arg Val Tyr Ala Ser Asn Gln Glu Phe Glu Ser Val Arg
 995 1000 1005
Leu Asn Glu Thr Leu Ser Ser Phe Ser Asp Asp Asn Lys Ile Thr Ile
 1010 1015 1020
Arg Leu Gly Arg Ala Leu Lys Lys Gly Glu Tyr Arg Val Lys Val Tyr
1025 1030 1035 1040
Gln Leu Leu Val Asn Glu Gln Glu Pro Cys Lys Phe Leu Leu Asp Ala
 1045 1050 1055
Val Phe Ala Lys Gly Met Thr Val Arg Gln Ser Lys Glu Glu Leu Ile
 1060 1065 1070
Pro Gln Leu Arg Glu Gln Cys Gly Leu Glu Leu Ser Ile Asp Arg Phe
 1075 1080 1085

Arg Leu Arg Lys Lys Thr Trp Lys Asn Pro Gly Thr Val Phe Leu Asp			
1090	1095	1100	
Tyr His Ile Tyr Glu Glu Asp Ile Asn Ile Ser Ser Asn Trp Glu Val			
1105	1110	1115	1120
Phe Leu Glu Val Leu Asp Gly Val Glu Lys Met Lys Ser Met Ser Gln			
1125	1130	1135	
Leu Ala Val Leu Ser Arg Arg Trp Lys Pro Ser Glu Met Lys Leu Asp			
1140	1145	1150	
Pro Phe Gln Glu Val Val Leu Glu Ser Ser Ser Val Asp Glu Leu Arg			
1155	1160	1165	
Glu Lys Leu Ser Glu Ile Ser Gly Ile Pro Leu Asp Asp Ile Glu Phe			
1170	1175	1180	
Ala Lys Gly Arg Gly Thr Phe Pro Cys Asp Ile Ser Val Leu Asp Ile			
1185	1190	1195	1200
His Gln Asp Leu Asp Trp Asn Pro Lys Val Ser Thr Leu Asn Val Trp			
1205	1210	1215	
Pro Leu Tyr Ile Cys Asp Asp Gly Ala Val Ile Phe Tyr Arg Asp Lys			
1220	1225	1230	
Thr Glu Glu Leu Met Glu Leu Thr Asp Glu Gln Arg Asn Glu Leu Met			
1235	1240	1245	
Lys Lys Glu Ser Ser Arg Leu Gln Lys Thr Gly His Arg Val Thr Tyr			
1250	1255	1260	
Ser Pro Arg Lys Glu Lys Ala Leu Lys Ile Tyr Leu Asp Gly Ala Pro			
1265	1270	1275	1280
Asn Lys Asp Leu Thr Gln Asp			
1285			

<210> 2585

<211> 240

<212> PRT

<213> Homo sapiens

<400> 2585

Met Gly Glu Asp Ser Pro Val Ala Met Phe Ser Trp Tyr Leu Asp Asn

1 5 10 15

Thr Pro Thr Glu Gln Ala Glu Pro Leu Leu Asp Ala Cys Arg Leu Arg

20 25 30

Gly Phe Trp Pro Arg Ser Leu Thr Leu Leu Gln Ser Asn Thr Ser Thr

35 40 45

Leu Leu Leu Asn Ser Ser Phe Leu Gln Ser Arg Gly Glu Val Ile Arg

50 55 60

Ile Arg Ala Thr Gly Ser Cys Leu His Cys Gly Pro Glu Pro Ala Leu

65 70 75 80

Pro Ser Val Tyr Leu Pro Leu Gly Glu Glu Asn Asn Asp Phe Val Leu

85 90 95

Thr Val Val Ile Ser Ala Thr Asn Arg Ala Gly Asp Thr Gln Gln Thr

100 105 110

Gln Ala Met Ala Lys Val Ala Leu Gly Asp Thr Cys Val Glu Asp Val

115 120 125

Ala Phe Gln Ala Ala Val Ser Glu Lys Ile Pro Thr Ala Leu Gln Gly

130 135 140

Glu Gly Gly Pro Glu Gln Leu Leu Gln Leu Ala Lys Ala Val Ser Ser

145 150 155 160

Met Leu Asn Gln Glu His Glu Ser Gln Gly Ser Gly Gln Ser Leu Ser

165 170 175

Ile Asp Val Arg Gln Lys Val Pro Val Gly Ser Trp Gly Ala Pro Phe

180 185 190

Ile Pro Phe Leu Trp Gly Pro Arg Val Cys Val Arg Pro Phe Gly Leu
 195 200 205
 Trp Ile Lys Val His Gly Ser Gly Glu Lys Pro Val Val Ser Pro Lys
 210 215 220
 Arg Leu Thr Pro Pro Pro Ser Leu Val Phe Trp Val Ser Asp Ile Lys
 225 230 235 240

<210> 2586

<211> 767

<212> PRT

<213> Homo sapiens

<400> 2586

Met Asp Thr Glu Phe Gly Ala Ser Ser Phe Phe His Ser Pro Ala Ser
 1 5 10 15
 Cys His Glu Ser His Ser Ser Leu Ser Pro Glu Ser Ser Ala Pro Gln
 20 25 30
 His Ser Ser Pro Ser Arg Ser Ala Leu Lys Leu Leu Thr Ser Val Glu
 35 40 45
 Val Asp Asn Ile Glu Pro Ser Ala Phe His Arg Gln Gly Leu Pro Lys
 50 55 60
 Ala Pro Gly Trp Thr Glu Lys Asn Ser His His Ser Trp Glu Pro Leu
 65 70 75 80
 Asp Ala Pro Glu Gly Lys Leu Gln Gly Ser Arg Cys Asp Asn Ser Ser
 85 90 95
 Cys Ser Lys Leu Pro Pro Gln Glu Gly Arg Gly Ile Ala Gln Glu Gln
 100 105 110
 Leu Phe Gln Glu Lys Lys Asp Pro Ala Asn Pro Ser Pro Val Met Pro

115	120	125
Gly Ile Ala Thr Ser Glu Arg Gly Asp Glu His Ser Leu Gly Cys Ser		
130	135	140
Pro Ser Asn Ser Ser Ala Gln Pro Ser Leu Pro Leu Tyr Arg Thr Cys		
145	150	155
His Pro Ile Met Pro Val Ala Ser Ser Phe Val Leu His Cys Pro Asp		
165	170	175
Pro Val Gln Lys Thr Asn Gln Cys Leu Gln Gly Gln Ser Leu Lys Thr		
180	185	190
Ser Leu Thr Leu Lys Val Asp Arg Gly Ser Glu Glu Thr Tyr Arg Pro		
195	200	205
Glu Phe Pro Ser Thr Lys Gly Leu Val Arg Ser Leu Ala Glu Gln Phe		
210	215	220
Gln Arg Met Gln Gly Val Ser Met Arg Asp Ser Thr Gly Phe Lys Asp		
225	230	235
Arg Ser Leu Ser Gly Ser Leu Arg Lys Asn Ser Ser Pro Ser Asp Ser		
245	250	255
Lys Pro Pro Phe Ser Gln Gly Gln Glu Lys Gly His Trp Pro Trp Ala		
260	265	270
Lys Gln Gln Ser Ser Leu Glu Gly Gly Asp Arg Pro Leu Ser Trp Glu		
275	280	285
Glu Ser Thr Glu His Ser Ser Leu Ala Leu Asn Ser Gly Leu Pro Asn		
290	295	300
Gly Glu Thr Ser Ser Gly Gly Gln Pro Arg Leu Ala Glu Pro Asp Ile		
305	310	315
Tyr Gln Glu Lys Leu Ser Gln Val Arg Asp Val Arg Ser Lys Asp Leu		
325	330	335
Gly Ser Ser Thr Asp Leu Gly Thr Ser Leu Pro Leu Asp Ser Trp Val		
340	345	350

Asn Ile Thr Arg Phe Cys Asp Ser Gln Leu Lys His Gly Ala Pro Arg
 355 360 365
 Pro Gly Met Lys Ser Ser Pro His Asp Ser His Thr Cys Val Thr Tyr
 370 375 380
 Pro Glu Arg Asn His Ile Leu Leu His Pro His Trp Asn Gln Asp Thr
 385 390 395 400
 Glu Gln Glu Thr Ser Glu Leu Glu Ser Leu Tyr Gln Ala Ser Leu Gln
 405 410 415
 Ala Ser Gln Ala Gly Cys Ser Gly Trp Gly Gln Gln Asp Thr Ala Trp
 420 425 430
 His Pro Leu Ser Gln Thr Gly Ser Ala Asp Gly Met Gly Arg Arg Leu
 435 440 445
 His Ser Ala His Asp Pro Gly Leu Ser Lys Thr Ser Thr Ala Glu Met
 450 455 460
 Glu His Gly Leu His Glu Ala Arg Thr Ala Thr Pro Cys Arg Gly Leu
 465 470 475 480
 Ser Arg Glu Cys Gly Glu Asp Glu Gln Tyr Ser Ala Glu Asn Leu Arg
 485 490 495
 Arg Ile Ser Arg Ser Leu Ser Gly Thr Val Val Ser Glu Arg Glu Glu
 500 505 510
 Ala Pro Val Ser Ser His Ser Phe Asp Ser Ser Asn Val Arg Lys Pro
 515 520 525
 Leu Glu Thr Gly His Arg Cys Ser Ser Ser Ser Ser Leu Pro Val Ile
 530 535 540
 His Asp Pro Ser Val Phe Leu Leu Gly Pro Gln Leu Tyr Leu Pro Gln
 545 550 555 560
 Pro Gln Phe Leu Ser Pro Asp Val Leu Met Pro Thr Met Ala Gly Glu
 565 570 575
 Pro Asn Arg Leu Pro Gly Thr Ser Arg Ser Val Gln Gln Phe Leu Ala

580	585	590
Met Cys Asp Arg Gly Glu Thr Ser Gln Gly Ala Lys Tyr Thr Gly Arg		
595	600	605
Thr Leu Asn Tyr Gln Ser Leu Pro His Arg Ser Arg Thr Asp Asn Ser		
610	615	620
Trp Ala Pro Trp Ser Glu Thr Asn Gln His Ile Gly Thr Arg Phe Leu		
625	630	635
Thr Thr Pro Gly Cys Asn Pro Gln Leu Thr Tyr Thr Ala Thr Leu Pro		
645	650	655
Glu Arg Ser Lys Gly Leu Gln Val Pro His Thr Gln Ser Trp Ser Asp		
660	665	670
Leu Phe His Ser Pro Ser His Pro Pro Ile Val His Pro Val Tyr Pro		
675	680	685
Pro Ser Ser Ser Leu His Val Pro Leu Arg Ser Ala Trp Asn Ser Asp		
690	695	700
Pro Val Pro Gly Ser Arg Thr Pro Gly Pro Arg Arg Val Asp Met Pro		
705	710	715
Pro Asp Asp Asp Trp Arg Gln Ser Ser Tyr Ala Ser His Ser Gly His		
725	730	735
Arg Arg Thr Val Gly Glu Gly Phe Leu Phe Val Leu Ser Asp Ala Pro		
740	745	750
Arg Arg Glu Gln Ile Arg Ala Arg Val Leu Gln His Ser Gln Trp		
755	760	765

<210> 2587

<211> 351

<212> PRT

<213> Homo sapiens

<400> 2587

Met Lys Gly Arg Ala Val Ser Phe Asp Pro Leu Ala Cys Gln Gly Leu
 1 5 10 15
 Asn Ala Ser Pro Gly Ser Leu Thr Ser Pro Leu Arg Arg Ile Arg Ser
 20 25 30
 Leu Thr Gly Arg Glu Val Leu Thr Pro Phe Pro Gly Leu Gly Thr Ala
 35 40 45
 Ala Ala Pro Ala Gln Gly Gly Ala His Leu Lys Pro His Ser Leu Val
 50 55 60
 Leu Pro Ile Thr Ala Leu Pro Pro Pro Pro Leu Ala Leu Arg Gly Arg
 65 70 75 80
 Gln Ala Thr Ser Lys Leu Pro Pro Phe Leu Ser Ser Pro Phe Pro Pro
 85 90 95
 Ser Leu Cys Pro Trp Val Pro Asp Pro Gly Phe Lys Glu Thr Ala Phe
 100 105 110
 Leu Tyr Ala Val Ser Ser Ala Ala Leu Thr His Thr Leu Ala Arg Ala
 115 120 125
 Cys Ser Ala Gly Arg Met Glu Arg Cys Thr Cys Asp Asp Ser Pro Gly
 130 135 140
 Leu Glu Ser Arg Gln Ala Trp Gln Trp Gly Val Cys Gly Asp Asn Leu
 145 150 155 160
 Lys Tyr Ser Thr Lys Phe Leu Ser Asn Phe Leu Gly Ser Lys Arg Gly
 165 170 175
 Asn Lys Asp Leu Arg Ala Arg Ala Asp Ala His Asn Thr His Val Gly
 180 185 190
 Ile Lys Ala Val Lys Ser Gly Leu Arg Thr Thr Cys Lys Cys His Gly
 195 200 205
 Val Ser Gly Ser Cys Ala Val Arg Thr Cys Trp Lys Gln Leu Ser Pro

210	215	220	
Phe Arg Glu Thr Gly Gln Val Leu Lys Leu Arg Tyr Asp Ser Ala Val			
225	230	235	240
Lys Val Ser Ser Ala Thr Asn Glu Ala Leu Gly Arg Leu Glu Leu Trp			
	245	250	255
Ala Pro Ala Arg Gln Gly Ser Leu Thr Lys Gly Leu Ala Pro Arg Ser			
	260	265	270
Gly Asp Leu Val Tyr Met Glu Asp Ser Pro Ser Phe Cys Arg Pro Ser			
	275	280	285
Lys Tyr Ser Pro Gly Thr Ala Gly Arg Val Cys Ser Arg Glu Ala Ser			
	290	295	300
Cys Ser Ser Leu Cys Cys Gly Arg Gly Tyr Asp Thr Gln Ser Arg Leu			
305	310	315	320
Val Ala Phe Ser Cys His Cys Gln Val Gln Trp Cys Cys Tyr Val Glu			
	325	330	335
Cys Gln Gln Cys Val Gln Glu Glu Leu Val Tyr Thr Cys Lys His			
	340	345	350

<210> 2588

<211> 702

<212> PRT

<213> Homo sapiens

<400> 2588

Met Trp Val Glu His Pro Gln Gly Val Thr Glu Ala Glu Arg Glu Ala			
1	5	10	15
Phe Glu Leu Leu Pro Asp Asp Glu Arg Gln Cys Ile Lys Cys Lys Thr			
	20	25	30

Thr Cys Phe Leu Ser Ala Leu Ala Cys Tyr Asp Cys Pro Asp Gly Leu
 35 40 45
 Val Cys Leu Ser His Ile Asn Asp Leu Cys Lys Cys Ser Ser Ser Arg
 50 55 60
 Gln Tyr Leu Arg Tyr Arg Tyr Thr Leu Asp Glu Leu Pro Thr Met Leu
 65 70 75 80
 His Lys Leu Lys Ile Arg Ala Glu Ser Phe Asp Thr Trp Ala Asn Lys
 85 90 95
 Val Arg Val Ala Leu Glu Val Glu Asp Gly Arg Lys Arg Ser Phe Glu
 100 105 110
 Glu Leu Arg Ala Leu Glu Ser Glu Ala Arg Glu Arg Arg Phe Pro Asn
 115 120 125
 Ser Glu Leu Leu Gln Arg Leu Lys Asn Cys Leu Ser Glu Val Glu Ala
 130 135 140
 Cys Ile Ala Gln Val Leu Gly Leu Val Ser Gly Gln Val Ala Arg Met
 145 150 155 160
 Asp Thr Pro Gln Leu Thr Leu Thr Glu Leu Arg Val Leu Leu Glu Gln
 165 170 175
 Met Gly Ser Leu Pro Cys Ala Met His Gln Ile Gly Asp Val Lys Asp
 180 185 190
 Val Leu Glu Gln Val Glu Ala Tyr Gln Ala Glu Ala Arg Glu Ala Leu
 195 200 205
 Ala Thr Leu Pro Ser Ser Pro Gly Leu Leu Arg Ser Leu Leu Glu Arg
 210 215 220
 Gly Gln Gln Leu Gly Ile Glu Val Pro Glu Ala His Gln Leu Gln Gln
 225 230 235 240
 Gln Val Glu Gln Ala Gln Trp Leu Asp Glu Val Lys Gln Ala Leu Ala
 245 250 255
 Pro Ser Ala His Arg Gly Ser Leu Val Ile Met Gln Gly Leu Leu Val

260	265	270
Met Gly Ala Lys Ile Ala Ser Ser Pro Ser Val Asp Lys Ala Arg Ala		
275	280	285
Glu Leu Gln Glu Leu Leu Thr Ile Ala Glu Arg Trp Glu Glu Lys Ala		
290	295	300
His Phe Cys Leu Glu Ala Arg Gln Lys His Pro Pro Ala Thr Leu Glu		
305	310	315
Ala Ile Ile Arg Glu Thr Glu Asn Ile Pro Val His Leu Pro Asn Ile		
325	330	335
Gln Ala Leu Lys Glu Ala Leu Thr Lys Ala Gln Ala Trp Ile Ala Asp		
340	345	350
Val Asp Glu Ile Gln Asn Gly Asp His Tyr Pro Cys Leu Asp Asp Leu		
355	360	365
Glu Gly Leu Val Ala Val Gly Arg Asp Leu Pro Val Gly Leu Glu Glu		
370	375	380
Leu Arg Gln Leu Glu Leu Gln Val Leu Thr Ala His Ser Trp Arg Glu		
385	390	395
Lys Ala Ser Lys Thr Phe Leu Lys Lys Asn Ser Cys Tyr Thr Leu Leu		
405	410	415
Glu Val Leu Cys Pro Cys Ala Asp Ala Gly Ser Asp Ser Thr Lys Arg		
420	425	430
Ser Arg Trp Met Glu Lys Ala Leu Gly Leu Tyr Gln Cys Asp Thr Glu		
435	440	445
Leu Leu Gly Leu Ser Ala Gln Asp Leu Arg Asp Pro Gly Ser Val Ile		
450	455	460
Val Ala Phe Lys Glu Gly Glu Gln Lys Glu Lys Glu Gly Ile Leu Gln		
465	470	475
Leu Arg Arg Thr Asn Ser Ala Lys Pro Ser Pro Leu Ala Pro Ser Leu		
485	490	495

Met Ala Ser Ser Pro Thr Ser Ile Cys Val Cys Gly Gln Val Pro Ala

500

505

510

Gly Val Gly Val Leu Gln Cys Asp Leu Cys Gln Asp Trp Phe His Gly

515

520

525

Gln Cys Val Ser Val Pro His Leu Leu Thr Ser Pro Lys Pro Ser Leu

530

535

540

Thr Ser Ser Pro Leu Leu Ala Trp Trp Glu Trp Asp Thr Lys Phe Leu

545

550

555

560

Cys Pro Leu Cys Met Arg Ser Arg Arg Pro Arg Leu Glu Thr Ile Leu

565

570

575

Ala Leu Leu Val Ala Leu Gln Arg Leu Pro Val Arg Leu Pro Glu Gly

580

585

590

Glu Ala Leu Gln Cys Leu Thr Glu Arg Ala Ile Gly Trp Gln Asp Arg

595

600

605

Ala Arg Lys Ala Leu Ala Ser Glu Asp Val Thr Ala Leu Leu Arg Gln

610

615

620

Leu Ala Glu Leu Arg Gln Gln Leu Gln Ala Lys Pro Arg Pro Glu Glu

625

630

635

640

Ala Ser Val Tyr Thr Ser Ala Thr Ala Cys Asp Pro Ile Arg Glu Gly

645

650

655

Ser Gly Asn Asn Ile Ser Lys Val Gln Gly Leu Leu Glu Asn Gly Asp

660

665

670

Ser Val Thr Ser Pro Glu Asn Met Ala Pro Gly Lys Gly Ser Gly Lys

675

680

685

Thr Gly Val Val Trp Val Gly Cys Trp Leu Asn Ile Thr Glu

690

695

700

<210> 2589

<211> 402

<212> PRT

<213> Homo sapiens

<400> 2589

Met Cys Glu Leu Asp Ile Leu His Asp Ser Leu Tyr Gln Phe Cys Pro

1 5 10 15

Glu Leu His Leu Lys Arg Leu Asn Ser Leu Thr Leu Ala Cys His Ala

20 25 30

Leu Leu Asp Cys Lys Thr Leu Thr Leu Thr Glu Leu Gly Arg Asn Leu

35 40 45

Pro Thr Lys Ala Arg Thr Lys His Asn Ile Lys Arg Ile Asp Arg Leu

50 55 60

Leu Gly Asn Arg His Leu His Lys Glu Arg Leu Ala Val Tyr Arg Trp

65 70 75 80

His Ala Ser Phe Ile Cys Ser Gly Asn Thr Met Pro Ile Val Leu Val

85 90 95

Asp Trp Ser Asp Ile Arg Glu Gln Lys Arg Leu Met Val Leu Arg Ala

100 105 110

Ser Val Ala Leu His Gly Arg Ser Val Thr Leu Tyr Glu Lys Ala Phe

115 120 125

Pro Leu Ser Glu Gln Cys Ser Lys Lys Ala His Asp Gln Phe Leu Ala

130 135 140

Asp Leu Ala Ser Ile Leu Pro Ser Asn Thr Thr Pro Leu Ile Val Ser

145 150 155 160

Asp Ala Gly Phe Lys Val Pro Trp Tyr Lys Ser Val Glu Lys Leu Gly

165 170 175

Trp Tyr Trp Leu Ser Arg Val Arg Gly Lys Val Gln Tyr Ala Asp Leu

180 185 190

Gly Ala Glu Asn Trp Lys Pro Ile Ser Asn Leu His Asp Met Ser Ser
195 200 205

Ser His Ser Lys Thr Leu Gly Tyr Lys Arg Leu Thr Lys Ser Asn Pro
210 215 220

Ile Ser Cys Gln Ile Leu Leu Tyr Lys Ser Arg Ser Lys Gly Arg Lys
225 230 235 240

Asn Gln Arg Ser Thr Arg Thr His Cys His His Pro Ser Pro Lys Ile
245 250 255

Tyr Ser Ala Ser Ala Lys Glu Pro Trp Val Leu Ala Thr Asn Leu Pro
260 265 270

Val Glu Ile Arg Thr Pro Lys Gln Leu Val Asn Ile Tyr Ser Lys Arg
275 280 285

Met Gln Ile Glu Glu Thr Phe Arg Asp Leu Lys Ser Pro Ala Tyr Gly
290 295 300

Leu Gly Leu Arg His Ser Arg Thr Ser Ser Ser Glu Arg Phe Asp Ile
305 310 315 320

Met Leu Leu Ile Ala Leu Met Leu Gln Leu Thr Cys Trp Leu Ala Gly
325 330 335

Val His Ala Gln Lys Gln Gly Trp Asp Lys His Phe Gln Ala Asn Thr
340 345 350

Val Arg Asn Arg Asn Val Leu Ser Thr Val Arg Leu Gly Met Glu Val
355 360 365

Leu Arg His Ser Gly Tyr Thr Ile Thr Arg Glu Asp Leu Leu Val Ala
370 375 380

Ala Thr Leu Leu Ala Gln Asn Leu Phe Thr His Gly Tyr Ala Leu Gly
385 390 395 400

Lys Leu

<210> 2590

<211> 1091

<212> PRT

<213> Homo sapiens

<400> 2590

Met Gln Lys Arg Gln Gly Tyr Cys Ser Tyr Cys Arg Val Gln Tyr Asn

1 5 10 15

Asn Leu Glu Gln His Leu Phe Ser Ala Gln His Arg Ser Leu Thr Arg

20 25 30

Gln Ser Arg Arg Gln Ile Cys Thr Ser Ser Leu Met Glu Arg Phe Leu

35 40 45

Gln Asp Val Leu Gln His His Pro Tyr His Cys Gln Glu Ser Ser Ser

50 55 60

Thr Gln Asp Glu Thr His Val Asn Thr Gly Ser Ser Ser Glu Val Val

65 70 75 80

His Leu Asp Asp Ala Phe Ser Glu Glu Glu Glu Glu Asp Glu Asp Lys

85 90 95

Val Glu Asp Glu Asp Ala Thr Glu Glu Arg Pro Ser Glu Val Ser Glu

100 105 110

Pro Ile Glu Glu Leu His Ser Arg Pro His Lys Ser Gln Glu Gly Thr

115 120 125

Gln Glu Val Ser Val Arg Pro Ser Val Ile Gln Lys Leu Glu Lys Gly

130 135 140

Gln Gln Gln Pro Leu Glu Phe Val His Lys Ile Gly Ala Ser Val Arg

145 150 155 160

Lys Cys Asn Leu Val Asp Ile Gly Gln Ala Thr Asn Asn Arg Ser Asn

165 170 175

Leu Val Arg Pro Pro Val Ile Cys Asn Ala Pro Ala Ser Cys Leu Pro
 180 185 190
 Glu Ser Ser Asn Asp Arg Pro Val Thr Ala Asn Thr Thr Ser Leu Pro
 195 200 205
 Pro Ala Ala His Leu Asp Ser Val Ser Lys Cys Asp Pro Asn Lys Val
 210 215 220
 Glu Lys Tyr Leu Glu Gln Pro Asp Gly Ala Ser Arg Asn Pro Val Pro
 225 230 235 240
 Ser Ser His Val Glu Thr Thr Ser Phe Ser Tyr Gln Lys His Lys Glu
 245 250 255
 Ser Asn Arg Lys Ser Leu Arg Met Asn Ser Asp Lys Leu Val Leu Trp
 260 265 270
 Lys Asp Val Lys Ser Gln Gly Lys Thr Leu Ser Ala Gly Leu Lys Phe
 275 280 285
 His Glu Arg Met Gly Thr Lys Gly Ser Leu Arg Val Lys Ser Pro Ser
 290 295 300
 Lys Leu Ala Val Asn Pro Asn Lys Thr Asp Met Pro Ser Asn Lys Gly
 305 310 315 320
 Ile Phe Glu Asp Thr Ile Ala Lys Asn His Glu Glu Phe Phe Ser Asn
 325 330 335
 Met Asp Cys Thr Gln Glu Glu Lys His Leu Val Phe Asn Lys Thr Ala
 340 345 350
 Phe Trp Glu Gln Lys Cys Ser Val Ser Ser Glu Met Lys Phe Asp Cys
 355 360 365
 Ile Ser Leu Gln Ser Ala Ser Asp Gln Pro Gln Glu Thr Ala Gln Asp
 370 375 380
 Leu Ser Leu Trp Lys Glu Glu Gln Ile Asp Gln Glu Asp Asn Tyr Glu
 385 390 395 400
 Ser Arg Gly Ser Glu Met Ser Phe Asp Cys Ser Ser Ser Phe His Ser

405	410	415
Leu Thr Asp Gln Ser Lys Val Ser Ala Lys Glu Val Asn Leu Ser Lys		
420	425	430
Glu Val Arg Thr Asp Val Gln Tyr Lys Asn Asn Lys Ser Tyr Val Ser		
435	440	445
Lys Ile Ser Ser Asp Cys Asp Asp Ile Leu His Leu Val Thr Asn Gln		
450	455	460
Ser Gln Met Ile Val Lys Glu Ile Ser Leu Gln Asn Ala Arg His Ile		
465	470	475
Ser Leu Val Asp Gln Ser Tyr Glu Ser Ser Ser Ser Glu Thr Asn Phe		
485	490	495
Asp Cys Asp Ala Ser Pro Gln Ser Thr Ser Asp Tyr Pro Gln Gln Ser		
500	505	510
Val Thr Glu Val Asn Leu Pro Lys Glu Val His Ile Gly Leu Val Asp		
515	520	525
Lys Asn Tyr Gly Ser Ser Ser Ser Glu Val Ser Ala Asp Ser Val Phe		
530	535	540
Pro Leu Gln Ser Val Val Asp Arg Pro Pro Val Ala Val Thr Glu Thr		
545	550	555
Lys Leu Arg Lys Lys Ala His Thr Ser Leu Val Asp Asn Tyr Gly Ser		
565	570	575
Ser Cys Ser Glu Thr Ser Phe Asp Cys Asp Val Ser Leu Glu Ser Val		
580	585	590
Val Asp His Pro Gln Leu Thr Val Lys Gly Arg Asn Leu Lys Gly Arg		
595	600	605
Gln Val His Leu Lys His Lys Lys Arg Lys Pro Ser Ser Ala Lys Ala		
610	615	620
His Leu Asp Cys Asp Val Ser Leu Gly Thr Val Ala Asp Glu Ser Gln		
625	630	635
		640

Arg Ala Val Glu Lys Ile Asn Leu Leu Lys Glu Lys Asn Ala Asp Leu
645 650 655
Met Asp Met Asn Cys Glu Ser His Gly Pro Glu Met Gly Phe Gln Ala
660 665 670
Asp Ala Gln Leu Ala Asp Gln Ser Gln Val Ala Glu Ile Glu Arg Gln
675 680 685
Lys Val Asp Val Asp Leu Glu Asn Lys Ser Val Gln Ser Ser Arg Ser
690 695 700
Ser Leu Ser Ser Asp Ser Pro Ala Ser Leu Tyr His Ser Ala His Asp
705 710 715 720
Glu Pro Gln Glu Ala Leu Asp Glu Val Asn Leu Lys Glu Leu Asn Ile
725 730 735
Asp Met Glu Val Arg Ser Tyr Asp Cys Ser Ser Ser Glu Leu Thr Phe
740 745 750
Asp Ser Asp Pro Pro Leu Leu Ser Val Thr Glu Gln Ser His Leu Asp
755 760 765
Ala Glu Gly Lys Glu Arg His Ile Asp Leu Glu Asp Glu Ser Cys Glu
770 775 780
Ser Asp Ser Ser Glu Ile Thr Phe Asp Ser Asp Ile Pro Leu Tyr Ser
785 790 795 800
Val Ile Asp Gln Pro Glu Val Ala Val Tyr Glu Glu Glu Thr Val Asp
805 810 815
Leu Glu Ser Lys Ser Asn Glu Ser Cys Val Ser Glu Ile Thr Phe Asp
820 825 830
Ser Asp Ile Pro Leu His Ser Gly Asn Asp His Pro Glu Val Ala Val
835 840 845
Lys Glu Val Ile Gln Lys Glu Glu Tyr Ile His Leu Glu Arg Lys Asn
850 855 860
Asp Glu Pro Ser Gly Ser Glu Ile Ser Ser Asp Ser His Ala Pro Leu

865 870 875 880
His Ser Val Thr Asn Ser Pro Glu Val Ala Val Lys Lys Leu Asn Pro
 885 890 895
Gln Lys Glu Glu Gln Val His Leu Glu Asn Lys Glu Asn Glu Pro Ile
 900 905 910
Asp Ser Glu Val Ser Leu Asp Tyr Asn Ile Ile Phe His Ser Val Thr
 915 920 925
Gly Arg Ser Glu Asp Pro Ile Lys Glu Ile Ser Leu His Thr Lys Glu
 930 935 940
His Met Tyr Leu Glu Asn Lys Ser Val Phe Glu Thr Ser Leu Asp Ser
945 950 955 960
Asp Val Pro Leu Gln Ala Ala Thr His Lys Pro Glu Val Ile Val Lys
 965 970 975
Glu Thr Trp Leu Gln Arg Glu Lys His Ala Glu Phe Gln Gly Arg Ser
 980 985 990
Thr Glu Phe Ser Gly Ser Lys Thr Ser Leu Asp Ser Gly Val Pro His
 995 1000 1005
Tyr Ser Val Thr Glu Pro Gln Val Ala Val Asn Lys Ile Asn Arg Lys
1010 1015 1020
Lys Gln Tyr Val Leu Glu Asn Lys Asn Asp Lys Cys Ser Gly Ser Glu
1025 1030 1035 1040
Ile Ile Leu Asp Ser Asn Val Pro Pro Gln Ser Met Thr Asp Gln Pro
 1045 1050 1055
Gln Leu Ala Phe Leu Lys Glu Lys His Val Asn Leu Lys Asp Lys Asn
 1060 1065 1070
Ser Lys Ser Gly Asp Ser Lys Ile Thr Phe Asp Ser Glu Gln Leu Gln
 1075 1080 1085
Glu Ala Val
1090

<210> 2591

<211> 1211

<212> PRT

<213> Homo sapiens

<400> 2591

Met Pro Leu Pro Asp Gly Ala Arg Thr Pro Gly Gly Val Cys Arg Glu
1 5 10 15
Ala Arg Gly Gly Gly Tyr Thr Asn Arg Thr Phe Glu Phe Asp Asp Gly
20 25 30
Gln Cys Ala Pro Arg Val Gln Val Glu Phe Tyr Val Asn Glu Asn Thr
35 40 45
Phe Lys Glu Arg Leu Lys Leu Phe Phe Ile Lys Asn Gln Arg Ser Ser
50 55 60
Leu Arg Ile Arg Leu Phe Asn Phe Ser Leu Lys Leu Leu Ile Cys Leu
65 70 75 80
Leu Tyr Ile Val Arg Val Leu Leu Asp Asp Pro Ala Leu Gly Ile Gly
85 90 95
Cys Trp Gly Cys Pro Lys Gln Asn Tyr Ser Phe Asn Asp Ser Ser Ser
100 105 110
Glu Ile Asn Trp Ala Pro Ile Leu Trp Val Glu Arg Lys Met Thr Leu
115 120 125
Trp Ala Ile Gln Val Ile Val Ala Ile Ile Ser Phe Leu Glu Thr Met
130 135 140
Leu Leu Ile Tyr Leu Ser Tyr Lys Gly Asn Ile Trp Glu Gln Ile Phe
145 150 155 160
Arg Val Ser Phe Val Leu Glu Met Ile Asn Thr Leu Pro Phe Ile Ile

165	170	175
Thr Ile Phe Trp Pro Pro Leu Arg Asn Leu Phe Ile Pro Val Phe Leu		
180	185	190
Asn Cys Trp Leu Ala Lys His Ala Leu Glu Asn Met Ile Asn Asp Phe		
195	200	205
His Arg Ala Ile Leu Arg Thr Gln Ser Ala Met Phe Asn Gln Val Leu		
210	215	220
Ile Leu Phe Cys Thr Leu Leu Cys Leu Val Phe Thr Gly Gly Cys Arg		
225	230	235
Thr Cys Gly Ile Gln His Leu Glu Arg Ala Gly Glu Asn Leu Ser Leu		
245	250	255
Leu Thr Ser Phe Tyr Phe Cys Ile Val Thr Phe Ser Thr Val Gly Tyr		
260	265	270
Gly Asp Val Thr Pro Lys Ile Trp Pro Ser Gln Leu Leu Val Val Ile		
275	280	285
Met Ile Cys Val Ala Leu Val Val Leu Pro Leu Gln Phe Glu Glu Leu		
290	295	300
Val Tyr Leu Trp Met Glu Arg Gln Lys Ser Gly Gly Asn Tyr Ser Arg		
305	310	315
His Arg Ala Gln Thr Glu Lys His Val Val Leu Cys Val Ser Ser Leu		
325	330	335
Lys Ile Asp Leu Leu Met Asp Phe Leu Asn Glu Phe Tyr Ala His Pro		
340	345	350
Arg Leu Gln Asp Tyr Tyr Val Val Ile Leu Cys Pro Thr Glu Met Asp		
355	360	365
Val Gln Val Arg Arg Val Leu Gln Ile Pro Leu Trp Ser Gln Arg Val		
370	375	380
Ile Tyr Leu Gln Gly Ser Ala Leu Lys Asp Gln Asp Leu Met Arg Ala		
385	390	395
		400

Lys Met Asp Asn Gly Glu Ala Cys Phe Ile Leu Ser Ser Arg Asn Glu
 405 410 415
 Val Asp Arg Thr Ala Ala Asp His Gln Thr Ile Leu Arg Ala Trp Ala
 420 425 430
 Val Lys Asp Phe Ala Pro Asn Cys Pro Leu Tyr Val Gln Ile Leu Lys
 435 440 445
 Pro Glu Asn Lys Phe His Val Lys Phe Ala Asp His Val Val Cys Glu
 450 455 460
 Glu Glu Cys Lys Tyr Ala Met Pro Ala Leu Asn Cys Ile Cys Pro Ala
 465 470 475 480
 Thr Ser Thr Leu Ile Thr Leu Leu Val His Thr Ser Arg Gly Gln Glu
 485 490 495
 Gly Gln Glu Ser Pro Glu Gln Trp Gln Arg Met Tyr Gly Arg Cys Ser
 500 505 510
 Gly Asn Glu Val Tyr His Ile Arg Met Gly Asp Ser Lys Phe Phe Arg
 515 520 525
 Glu Tyr Glu Gly Lys Ser Phe Thr Tyr Ala Ala Phe His Ala His Lys
 530 535 540
 Lys Tyr Gly Val Cys Leu Ile Gly Leu Lys Arg Glu Asp Asn Lys Ser
 545 550 555 560
 Ile Leu Leu Asn Pro Gly Pro Arg His Ile Leu Ala Ala Ser Asp Thr
 565 570 575
 Cys Phe Tyr Ile Asn Ile Thr Lys Glu Glu Asn Ser Ala Phe Ile Phe
 580 585 590
 Lys Gln Glu Glu Lys Arg Lys Lys Arg Ala Phe Ser Gly Gln Gly Leu
 595 600 605
 His Glu Gly Pro Ala Arg Leu Pro Val His Ser Ile Ile Ala Ser Met
 610 615 620
 Gly Thr Val Ala Met Asp Leu Gln Gly Thr Glu His Arg Pro Thr Gln

625 630 635 640
Ser Gly Gly Gly Gly Gly Gly Ser Lys Leu Ala Leu Pro Thr Glu Asn
 645 650 655
Gly Ser Gly Ser Arg Arg Pro Ser Ile Ala Pro Val Leu Glu Leu Ala
 660 665 670
Asp Ser Ser Ala Leu Leu Pro Cys Asp Leu Leu Ser Asp Gln Ser Glu
 675 680 685
Asp Glu Val Thr Pro Ser Asp Asp Glu Gly Leu Ser Val Val Glu Tyr
 690 695 700
Val Lys Gly Tyr Pro Pro Asn Ser Pro Tyr Ile Gly Ser Ser Pro Thr
705 710 715 720
Leu Cys His Leu Leu Pro Val Lys Ala Pro Phe Cys Cys Leu Arg Leu
 725 730 735
Asp Lys Gly Cys Lys His Asn Ser Tyr Glu Asp Ala Lys Ala Tyr Gly
 740 745 750
Phe Lys Asn Lys Leu Ile Ile Val Ser Ala Glu Thr Ala Gly Asn Gly
 755 760 765
Leu Tyr Asn Phe Ile Val Pro Leu Arg Ala Tyr Tyr Arg Ser Arg Lys
 770 775 780
Glu Leu Asn Pro Ile Val Leu Leu Leu Asp Asn Glu Pro Asp His His
785 790 795 800
Phe Leu Glu Ala Ile Cys Cys Phe Pro Met Val Tyr Tyr Met Glu Gly
 805 810 815
Ser Val Asp Asn Leu Asp Ser Leu Leu Gln Cys Gly Ile Ile Tyr Ala
 820 825 830
Asp Asn Leu Val Val Val Asp Lys Glu Ser Thr Met Ser Ala Glu Glu
 835 840 845
Asp Tyr Met Ala Asp Ala Lys Thr Ile Val Asn Val Gln Thr Met Phe
 850 855 860

Arg Leu Phe Pro Ser Leu Ser Ile Thr Thr Glu Leu Thr His Pro Ser
865 870 875 880
Asn Met Arg Phe Met Gln Phe Arg Ala Lys Asp Ser Tyr Ser Leu Ala
885 890 895
Leu Ser Lys Leu Glu Lys Arg Glu Arg Glu Asn Gly Ser Asn Leu Ala
900 905 910
Phe Met Phe Arg Leu Pro Phe Ala Ala Gly Arg Val Phe Ser Ile Ser
915 920 925
Met Leu Asp Thr Leu Leu Tyr Gln Ser Phe Val Lys Asp Tyr Lys Ile
930 935 940
Thr Ile Thr Arg Leu Leu Leu Gly Leu Asp Thr Thr Pro Gly Ser Gly
945 950 955 960
Tyr Leu Cys Ala Met Lys Ile Thr Glu Gly Asp Leu Trp Ile Arg Thr
965 970 975
Tyr Gly Arg Leu Phe Gln Lys Leu Cys Ser Ser Ser Ala Glu Ile Pro
980 985 990
Ile Gly Ile Tyr Arg Thr Glu Ser His Val Phe Ser Thr Ser Glu Pro
995 1000 1005
His Asp Leu Arg Ala Gln Ser Gln Ile Ser Val Asn Val Glu Asp Cys
1010 1015 1020
Glu Asp Thr Arg Glu Val Lys Gly Pro Trp Gly Ser Arg Ala Gly Thr
1025 1030 1035 1040
Gly Gly Ser Ser Gln Gly Arg His Thr Gly Gly Gly Asp Pro Ala Glu
1045 1050 1055
His Pro Leu Leu Arg Arg Lys Ser Leu Gln Trp Ala Arg Arg Leu Ser
1060 1065 1070
Arg Lys Ala Pro Lys Gln Ala Gly Arg Ala Ala Ala Ala Glu Trp Ile
1075 1080 1085
Ser Gln Gln Arg Leu Ser Leu Tyr Arg Arg Ser Glu Arg Gln Glu Leu

1090	1095	1100	
Ser Glu Leu Val Lys Asn Arg Met Lys His Leu Gly Leu Pro Thr Thr			
1105	1110	1115	1120
Gly Tyr Glu Asp Val Ala Asn Leu Thr Ala Ser Asp Val Met Asn Arg			
1125	1130	1135	
Val Asn Leu Gly Tyr Leu Gln Asp Glu Met Asn Asp His Gln Asn Thr			
1140	1145	1150	
Leu Ser Tyr Val Leu Ile Asn Pro Pro Pro Asp Thr Arg Leu Glu Pro			
1155	1160	1165	
Ser Asp Ile Val Tyr Leu Ile Arg Ser Asp Pro Leu Ala His Val Ala			
1170	1175	1180	
Ser Ser Ser Gln Ser Arg Lys Ser Ser Cys Ser His Lys Leu Ser Ser			
1185	1190	1195	1200
Cys Asn Pro Glu Thr Arg Asp Glu Thr Gln Leu			
1205	1210		

<210> 2592

<211> 182

<212> PRT

<213> Homo sapiens

<400> 2592

Met Met Glu Arg Lys Ala Ser Ser Trp Ser Phe Ser Val Ser Leu Ser			
1	5	10	15
Ser Arg Asp Ser Pro Glu Gly Pro Arg Ala Pro Pro Pro Trp Trp Glu			
20	25	30	
Val Ser Phe Tyr Gln Val Pro Pro Pro Pro Lys Cys Val Gly Leu Arg			
35	40	45	

Ala Leu Gly Phe Gln Gly Arg Trp Leu Gln Gly Ala Thr Gln Gly Gln
 50 55 60
 His Ser Leu Ser His Leu Val Asp Thr His Glu Gln Gln Leu Leu Thr
 65 70 75 80
 Trp Gln Val Leu Cys Ser Gly Trp Arg Pro Leu Ser Asp Trp Gln Val
 85 90 95
 Ala Gly Pro His Ile Ala Ala Gly Arg Gly Gln Glu Gly Asp Arg Val
 100 105 110
 Pro Gly Glu His Ser His Arg Ala Arg Phe His Val Pro Pro His Lys
 115 120 125
 His Ala Asp Ala Thr Gly Gly Leu Ala Gly Arg Arg His Gln Gly Pro
 130 135 140
 Val Gly Gln Val His Gly Leu Gly Arg Gly Phe Leu Ala Gly Ala His
 145 150 155 160
 Thr Ser Ser Ala Pro Ser Ser Ala Lys Ala Ala Trp Thr His Gly Ser
 165 170 175
 Gly Asp Gly Arg Gly Ala
 180

<210> 2593

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2593

Met Pro Val Ile Leu Ala Phe Trp Arg Ala Glu Val Gly Gly Thr Pro
 1 5 10 15
 Lys Val Gly Asn Ser Arg Ser Ala Trp Pro Thr Trp Arg Asn Pro Val

20 25 30
Ser Thr Lys Asn Ile Lys Val Ser Trp Val Trp Cys Gln Ala Pro Val
35 40 45
Ile Ser Ala Thr Cys Glu Ala Glu Ala Gly Glu Ser Leu Gly Pro Arg
50 55 60
Glu Val Glu Val Ser Val Gly Arg Asp His Thr Thr Ser Leu Gln Pro
65 70 75 80
Glu Gln Lys Ser Glu Thr Pro Ser Gln Lys Lys Lys Lys Lys Lys Lys
85 90 95
Lys Val Asn Val Lys Arg Ile Ile Arg Lys Arg Lys Tyr Ile Tyr Tyr
100 105 110
Ser Leu Ser Glu Ser Gly Ala Ser
115 120

<210> 2594

<211> 272

<212> PRT

<213> Homo sapiens

<400> 2594

Met Glu Ala Cys Cys Leu Leu Gln Leu Pro Gln Arg Leu Leu Leu Leu
1 5 10 15
Gly Ala Ala Ala Leu Thr Ala Thr Ala Leu Glu Thr Ala Asp Leu Ala
20 25 30
Glu Leu Cys Gly Gln Thr Trp Gln Gly Asp Gly Leu Leu Leu Arg Ser
35 40 45
His Ala Ala Ser Arg Arg Phe Tyr Phe Val Ala Pro Asp Thr Asp Cys
50 55 60

Gly Leu Trp Val Gln Ala Ala Ala Pro Gly Asp Arg Ile Arg Phe Gln
65 70 75 80
Phe Arg Phe Phe Leu Val Tyr Ser Leu Thr Pro Ala Pro Pro Ala Leu
85 90 95
Asn Thr Ser Ser Pro Ala Pro Ala Asp Pro Cys Ala Pro Gly Ser Tyr
100 105 110
Leu Arg Phe Tyr Glu Gly Pro Pro Gly Ala Pro Arg Pro Leu Gly Ser
115 120 125
Pro Leu Cys Gly Leu Asn Ile Pro Val Pro Val Ala Ser Ser Gly Pro
130 135 140
Phe Leu Gly Leu Arg Leu Val Thr Arg Gly Arg Gln Pro Arg Val Asp
145 150 155 160
Phe Val Gly Glu Val Thr Ser Phe Arg Leu Gly Pro Cys Gly Ala Tyr
165 170 175
Phe Arg Cys Gln Asn Gly Arg Cys Ile Pro Ser Ser Leu Val Cys Asp
180 185 190
Pro Trp Gly Met Asp Asn Cys Gly Asp Gly Ser Asp Gln Gly Ser Trp
195 200 205
Ser Pro Ala Asp Cys Arg Gly Pro Ser Pro Val Pro Ser Gln Thr Gly
210 215 220
Ser Thr Asp Ala His Thr Ser Arg Ser Leu Thr Pro Ser Pro Ala Leu
225 230 235 240
Gly Ser Ala Gly Ser Leu Trp Ile Ala Ala Glu Arg Ser Ser Pro Ala
245 250 255
Gly Arg Asp Pro Thr Arg Gln Asp Ala Ala Leu Glu Gly Ser Thr Glu
260 265 270

<210> 2595

<211> 1233

<212> PRT

<213> Homo sapiens

<400> 2595

Met Tyr Val Tyr Asp Gly Asp Ser Ile Tyr Ala Pro Leu Ile Ala Val

1 5 10 15

Leu Ser Gly Leu Ile Val Pro Glu Ile Arg Gly Asn Glu Thr Val Pro

20 25 30

Glu Val Val Thr Thr Ser Gly Tyr Ala Leu Leu His Phe Phe Ser Asp

35 40 45

Ala Ala Tyr Asn Leu Thr Gly Phe Asn Ile Phe Tyr Ser Ile Asn Ser

50 55 60

Cys Pro Asn Asn Cys Ser Gly His Gly Lys Cys Thr Thr Ser Val Ser

65 70 75 80

Val Pro Ser Gln Val Tyr Cys Glu Cys Asp Lys Tyr Trp Lys Gly Glu

85 90 95

Ala Cys Asp Ile Pro Tyr Cys Lys Ala Asn Cys Gly Ser Pro Asp His

100 105 110

Gly Tyr Cys Asp Leu Thr Gly Glu Lys Leu Cys Val Cys Asn Asp Ser

115 120 125

Trp Gln Gly Pro Asp Cys Ser Leu Asn Val Pro Ser Thr Glu Ser Tyr

130 135 140

Trp Ile Leu Pro Asn Val Lys Pro Phe Ser Pro Ser Val Gly Arg Ala

145 150 155 160

Ser His Lys Ala Val Leu His Gly Lys Phe Met Trp Val Ile Gly Gly

165 170 175

Tyr Thr Phe Asn Tyr Ser Ser Phe Gln Met Val Leu Asn Tyr Asn Leu

180 185 190

Glu Ser Ser Ile Trp Asn Val Gly Thr Pro Ser Arg Gly Pro Leu Gln
 195 200 205
 Arg Tyr Gly His Ser Leu Ala Leu Tyr Gln Glu Asn Ile Phe Met Tyr
 210 215 220
 Gly Gly Arg Ile Glu Thr Asn Asp Gly Asn Val Thr Asp Glu Leu Trp
 225 230 235 240
 Val Phe Asn Ile His Ser Gln Ser Trp Ser Thr Lys Thr Pro Thr Val
 245 250 255
 Leu Gly His Gly Gln Gln Tyr Ala Val Glu Gly His Ser Ala His Ile
 260 265 270
 Met Glu Leu Asp Ser Arg Asp Val Val Met Ile Ile Ile Phe Gly Tyr
 275 280 285
 Ser Ala Ile Tyr Gly Tyr Thr Ser Ser Ile Gln Glu Tyr His Ile Ser
 290 295 300
 Ser Asn Thr Trp Leu Val Pro Glu Thr Lys Gly Ala Ile Val Gln Gly
 305 310 315 320
 Gly Tyr Gly His Thr Ser Val Tyr Asp Glu Ile Thr Lys Ser Ile Tyr
 325 330 335
 Val His Gly Gly Tyr Lys Ala Leu Pro Gly Asn Lys Tyr Gly Leu Val
 340 345 350
 Asp Asp Leu Tyr Lys Tyr Glu Val Asn Thr Lys Thr Trp Thr Ile Leu
 355 360 365
 Lys Glu Ser Gly Phe Ala Arg Tyr Leu His Ser Ala Val Leu Ile Asn
 370 375 380
 Gly Ala Met Leu Ile Phe Gly Gly Asn Thr His Asn Asp Thr Ser Leu
 385 390 395 400
 Ser Asn Gly Ala Lys Cys Phe Ser Ala Asp Phe Leu Ala Tyr Asp Ile
 405 410 415
 Ala Cys Asp Glu Trp Lys Ile Leu Pro Lys Pro Asn Leu His Arg Asp

420	425	430
Val Asn Arg Phe Gly His Ser Ala Val Val Ile Asn Gly Ser Met Tyr		
435	440	445
Ile Phe Gly Gly Phe Ser Ser Val Leu Leu Asn Asp Ile Leu Val Tyr		
450	455	460
Lys Pro Pro Asn Cys Lys Ala Phe Arg Asp Glu Glu Leu Cys Lys Asn		
465	470	475
Ala Gly Pro Gly Ile Lys Cys Val Trp Asn Lys Asn His Cys Glu Ser		
485	490	495
Trp Glu Ser Gly Asn Thr Asn Asn Ile Leu Arg Ala Lys Cys Pro Pro		
500	505	510
Lys Thr Ala Ala Ser Asp Asp Arg Cys Tyr Arg Tyr Ala Asp Cys Ala		
515	520	525
Ser Cys Thr Ala Asn Thr Asn Gly Cys Gln Trp Cys Asp Asp Lys Lys		
530	535	540
Cys Ile Ser Ala Asn Ser Asn Cys Ser Met Ser Val Lys Asn Tyr Thr		
545	550	555
Lys Cys His Val Arg Asn Glu Gln Ile Cys Asn Lys Leu Thr Ser Cys		
565	570	575
Lys Ser Cys Ser Leu Asn Leu Asn Cys Gln Trp Asp Gln Arg Gln Gln		
580	585	590
Glu Cys Gln Ala Leu Pro Ala His Leu Cys Gly Glu Gly Trp Ser His		
595	600	605
Ile Gly Asp Ala Cys Leu Arg Val Asn Ser Ser Arg Glu Asn Tyr Asp		
610	615	620
Asn Ala Lys Leu Tyr Cys Tyr Asn Leu Ser Gly Asn Leu Ala Ser Leu		
625	630	635
Thr Thr Ser Lys Glu Val Glu Phe Val Leu Asp Glu Ile Gln Lys Tyr		
645	650	655

Thr Gln Gln Lys Val Ser Pro Trp Val Gly Leu Arg Lys Ile Asn Ile
 660 665 670
 Ser Tyr Trp Gly Trp Glu Asp Met Ser Pro Phe Thr Asn Thr Thr Leu
 675 680 685
 Gln Trp Leu Pro Gly Glu Pro Asn Asp Ser Gly Phe Cys Ala Tyr Leu
 690 695 700
 Glu Arg Ala Ala Val Ala Gly Leu Lys Ala Asn Pro Cys Thr Ser Met
 705 710 715 720
 Ala Asn Gly Leu Val Cys Glu Lys Pro Val Val Ser Pro Asn Gln Asn
 725 730 735
 Ala Arg Pro Cys Lys Lys Pro Cys Ser Leu Arg Thr Ser Cys Ser Asn
 740 745 750
 Cys Thr Ser Asn Gly Met Glu Cys Met Trp Cys Ser Ser Thr Lys Arg
 755 760 765
 Cys Val Asp Ser Asn Ala Tyr Ile Ile Ser Phe Pro Tyr Gly Gln Cys
 770 775 780
 Leu Glu Trp Gln Thr Ala Thr Cys Ser Pro Gln Asn Cys Ser Gly Leu
 785 790 795 800
 Arg Thr Cys Gly Gln Cys Leu Glu Gln Pro Gly Cys Gly Trp Cys Asn
 805 810 815
 Asp Pro Ser Asn Thr Gly Arg Gly His Cys Ile Glu Gly Ser Ser Arg
 820 825 830
 Gly Pro Met Lys Leu Ile Gly Met His His Asn Glu Met Val Leu Asp
 835 840 845
 Thr Asn Leu Cys Pro Lys Glu Lys Asn Tyr Glu Trp Ser Phe Ile Gln
 850 855 860
 Cys Pro Ala Cys Gln Cys Asn Gly His Ser Thr Cys Ile Asn Asn Asn
 865 870 875 880
 Val Cys Glu Gln Cys Lys Asn Leu Thr Thr Gly Lys Gln Cys Gln Asp

	885		890		895
Cys Met Pro Gly Tyr Tyr Gly Asp Pro Thr Asn Gly Gly Gln Cys Thr					
	900		905		910
Ala Cys Thr Cys Ser Gly His Ala Asn Ile Cys His Leu His Thr Gly					
	915		920		925
Lys Cys Phe Cys Thr Thr Lys Gly Ile Lys Gly Asp Gln Cys Gln Leu					
	930		935		940
Cys Asp Ser Glu Asn Arg Tyr Val Gly Asn Pro Leu Arg Gly Thr Cys					
945		950		955	960
Tyr Tyr Ser Leu Leu Ile Asp Tyr Gln Phe Thr Phe Ser Leu Leu Gln					
	965		970		975
Glu Asp Asp Arg His His Thr Ala Ile Asn Phe Ile Ala Asn Pro Glu					
	980		985		990
Gln Ser Asn Lys Asn Leu Asp Ile Ser Ile Asn Ala Ser Asn Asn Phe					
	995		1000		1005
Asn Leu Asn Ile Thr Trp Ser Val Gly Ser Thr Ala Gly Thr Ile Ser					
	1010		1015		1020
Gly Glu Glu Thr Ser Ile Val Ser Lys Asn Asn Ile Lys Glu Tyr Arg					
1025		1030		1035	1040
Asp Ser Phe Ser Tyr Glu Lys Phe Asn Phe Arg Ser Asn Pro Asn Ile					
	1045		1050		1055
Thr Phe Tyr Val Tyr Val Ser Asn Phe Ser Trp Pro Ile Lys Ile Gln					
	1060		1065		1070
Ile Ala Phe Ser Gln His Asn Thr Ile Met Asp Leu Val Gln Phe Phe					
	1075		1080		1085
Val Thr Phe Phe Ser Cys Phe Leu Ser Leu Leu Leu Val Ala Ala Val					
	1090		1095		1100
Val Trp Lys Ile Lys Gln Thr Cys Trp Ala Ser Arg Arg Arg Glu Gln					
1105		1110		1115	1120

Leu Leu Arg Glu Arg Gln Gln Met Ala Ser Arg Pro Phe Ala Ser Val
 1125 1130 1135
 Asp Val Ala Leu Glu Val Gly Ala Glu Gln Thr Glu Phe Leu Arg Gly
 1140 1145 1150
 Pro Leu Glu Gly Ala Pro Lys Pro Ile Ala Ile Glu Pro Cys Ala Gly
 1155 1160 1165
 Asn Arg Ala Ala Val Leu Thr Val Phe Leu Cys Leu Pro Arg Gly Ser
 1170 1175 1180
 Ser Gly Ala Pro Pro Pro Gly Gln Ser Gly Leu Ala Ile Ala Ser Ala
 1185 1190 1195 1200
 Leu Ile Asp Ile Ser Gln Gln Lys Ala Ser Asp Ser Lys Asp Lys Thr
 1205 1210 1215
 Ser Gly Val Arg Asn Arg Lys His Leu Ser Thr Arg Gln Gly Thr Cys
 1220 1225 1230
 Val

<210> 2596

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2596

Met Ala Asp Thr Ser Pro Pro Thr Lys Leu Glu His Pro Arg Ser Thr
 1 5 10 15
 Ser Asp Cys Cys Ala Gly Ser Lys Asn Phe Asn Pro Val Asp Leu Ser
 20 25 30
 Phe Leu Gly Ser Met Gly Val Gly Ser Thr Asp Gln Asp His Leu Ala

35 40 45
 Pro Trp Phe Gln Pro Pro Phe Gln Gly Ser Glu Trp Phe Cys Leu Ser
 50 55 60
 Gly Ile Pro Asp Asn Ser Gly Val Arg Lys Lys Leu Leu Gln Leu Ala
 65 70 75 80
 Gln Cys Leu Pro Lys Trp Pro Leu Ser Phe Val Leu Glu Ile Gln Gly
 85 90 95
 Pro Cys Gly Val Gly Thr Gln Gly Ile Ser Leu Ser Val Asp Cys Glu
 100 105 110
 Asp His Gly Lys Ser Val Val Ser Gly Pro Glu Cys Thr Pro Thr His
 115 120 125
 Gly Met Val Pro His Gly Phe Pro Trp Leu Gly Glu Gly Val Pro Gln
 130 135 140
 Pro Leu Ala Leu Pro Arg
 145 150

<210> 2597

<211> 446

<212> PRT

<213> Homo sapiens

<400> 2597

Met Ile Ser Arg Ile Phe Thr Leu Arg Ile Val Ser Gly Asn Ala Gly
 1 5 10 15
 Glu Ser Thr Ser Glu Leu Ile Lys Val Leu Lys Cys Val Leu Val Gly
 20 25 30
 Leu Glu Ser Pro Pro Leu Ser Val Ser Glu Glu Arg Gln Leu Ala Val
 35 40 45

Leu Thr Glu Leu Pro Phe Val Val Pro Phe Glu Glu Arg Val Lys Ile
 50 55 60
 Phe Gln Arg Leu Ile Tyr Ala Asp Lys Gln Glu Val Gln Gly Asp Gly
 65 70 75 80
 Pro Phe Leu Asp Gly Ile Asn Val Thr Ile Arg Arg Asn Tyr Ile Tyr
 85 90 95
 Glu Asp Ala Tyr Asp Lys Leu Ser Pro Glu Asn Glu Pro Asp Leu Lys
 100 105 110
 Lys Arg Ile Arg Val His Leu Leu Asn Ala His Gly Leu Asp Glu Ala
 115 120 125
 Gly Ile Asp Gly Gly Gly Ile Phe Arg Glu Phe Leu Asn Glu Leu Leu
 130 135 140
 Lys Ser Gly Phe Asn Pro Asn Gln Gly Phe Phe Lys Thr Thr Asn Glu
 145 150 155 160
 Gly Leu Leu Tyr Pro Asn Pro Ala Ala Gln Met Leu Val Gly Asp Ser
 165 170 175
 Phe Ala Arg His Tyr Tyr Phe Leu Gly Arg Met Leu Gly Lys Ala Leu
 180 185 190
 Tyr Glu Asn Met Leu Val Glu Leu Pro Phe Ala Gly Phe Phe Leu Ser
 195 200 205
 Lys Leu Leu Gly Thr Ser Ala Asp Val Asp Ile His His Leu Ala Ser
 210 215 220
 Leu Asp Pro Glu Val Tyr Lys Asn Leu Leu Phe Leu Lys Ser Tyr Glu
 225 230 235 240
 Asp Asp Val Glu Glu Leu Gly Leu Asn Phe Thr Val Val Asn Asn Asp
 245 250 255
 Leu Gly Glu Ala Gln Val Val Glu Leu Lys Phe Gly Gly Lys Asp Ile
 260 265 270
 Pro Val Thr Ser Ala Asn Arg Ile Ala Tyr Ile His Leu Val Ala Asp

275	280	285	
Tyr Arg Leu Asn Arg Gln Ile Arg Gln His Cys Leu Ala Phe Arg Gln			
290	295	300	
Gly Leu Ala Asn Val Val Ser Leu Glu Trp Leu Arg Met Phe Asp Gln			
305	310	315	320
Gln Glu Ile Gln Val Leu Ile Ser Gly Ala Gln Val Pro Ile Ser Leu			
325	330	335	
Glu Asp Leu Lys Ser Phe Thr Asn Tyr Ser Gly Gly Tyr Ser Ala Asp			
340	345	350	
His Pro Val Ile Lys Val Phe Trp Arg Val Val Glu Gly Phe Thr Asp			
355	360	365	
Glu Glu Lys Arg Lys Leu Leu Lys Phe Val Thr Ser Cys Ser Arg Pro			
370	375	380	
Pro Leu Leu Gly Phe Lys Glu Leu Tyr Pro Ala Phe Cys Ile His Asn			
385	390	395	400
Gly Gly Ser Asp Leu Glu Arg Leu Pro Thr Ala Ser Thr Cys Met Asn			
405	410	415	
Leu Leu Lys Leu Pro Glu Phe Tyr Asp Glu Thr Leu Leu Arg Ser Lys			
420	425	430	
Leu Leu Tyr Ala Ile Glu Cys Ala Ala Gly Phe Glu Leu Ser			
435	440	445	

<210> 2598

<211> 376

<212> PRT

<213> Homo sapiens

<400> 2598

Met Leu Glu Glu Thr Asp Trp Tyr Leu Leu Asn Leu Phe Arg Leu Trp
 1 5 10 15
 Trp His Tyr Gly Ile Ser Phe Leu Arg Leu Gln Met Trp Val Glu Glu
 20 25 30
 Val Met Glu Lys Phe Met Arg Ile Tyr Lys Tyr Gln Ala His Gly Tyr
 35 40 45
 Ala Phe Ser Gly Val Glu Glu Leu Leu Tyr Ser Leu Gly Glu Ser Thr
 50 55 60
 Phe Val Asn Met Thr Gln His Ser Val Ala Glu Ser Leu Leu Gln Val
 65 70 75 80
 Gly Val Thr Gln Arg Phe Ile Asp Asp Val Val Ser Ala Val Leu Arg
 85 90 95
 Ala Ser Tyr Gly Gln Ser Ala Ala Met Pro Ala Phe Ala Gly Ala Met
 100 105 110
 Ser Leu Ala Gly Ala Gln Gly Ser Leu Trp Ser Val Glu Gly Gly Asn
 115 120 125
 Lys Leu Val Cys Ser Gly Leu Leu Lys Leu Thr Lys Ala Asn Val Ile
 130 135 140
 His Ala Thr Val Thr Ser Val Thr Leu His Ser Thr Glu Gly Lys Ala
 145 150 155 160
 Leu Tyr Gln Val Ala Tyr Glu Asn Glu Val Gly Asn Ser Ser Asp Phe
 165 170 175
 Tyr Asp Ile Val Val Ile Ala Thr Pro Leu His Leu Asp Asn Ser Ser
 180 185 190
 Ser Asn Leu Thr Phe Ala Gly Phe His Pro Pro Ile Asp Asp Val Gln
 195 200 205
 Gly Ser Phe Gln Pro Thr Val Val Ser Leu Val His Gly Tyr Leu Asn
 210 215 220
 Ser Ser Tyr Phe Gly Phe Pro Asp Pro Lys Leu Phe Pro Phe Ala Asn

225	230	235	240
Ile Leu Thr Thr Asp Phe Pro Ser Phe Phe Cys Thr Leu Asp Asn Ile			
	245	250	255
Cys Pro Val Asn Ile Ser Ala Ser Phe Arg Arg Lys Gln Pro Gln Glu			
	260	265	270
Ala Ala Val Trp Arg Val Gln Ser Pro Lys Pro Leu Phe Arg Thr Gln			
	275	280	285
Leu Lys Thr Leu Phe Arg Ser Tyr Tyr Ser Val Gln Thr Ala Glu Trp			
	290	295	300
Gln Ala His Pro Leu Tyr Gly Ser Arg Pro Thr Leu Pro Arg Phe Val			
305	310	315	320
Leu His Asp Gln Leu Phe Tyr Leu Asn Ala Leu Glu Trp Ala Ala Ser			
	325	330	335
Ser Val Glu Val Met Ala Val Ala Ala Lys Asn Val Ala Leu Leu Ala			
	340	345	350
Tyr Asn Arg Trp Tyr Gln Asp Leu Asp Lys Ile Asp Gln Lys Asp Leu			
	355	360	365
Met His Lys Val Lys Thr Glu Leu			
	370	375	

<210> 2599

<211> 871

<212> PRT

<213> Homo sapiens

<400> 2599

Met Asp Gly Glu Ser Glu Val Asp Phe Ser Ser Asn Ser Ile Thr Pro

1

5

10

15

Leu Trp Arg Arg Arg Ser Ile Pro Gln Pro His Gln Leu Leu Gly Arg
 20 25 30
 Ser Lys Pro Arg Pro Gln Ser Tyr Gln Ser Pro Asn Gly Leu Leu Ile
 35 40 45
 Thr Asp Phe Pro Val Glu Asp Gly Gly Thr Leu Ser Ala Ala Gln Ile
 50 55 60
 Pro Ala Gln Val Pro Thr Ala Ser Asp Ser Arg Thr Val His Arg Ser
 65 70 75 80
 Pro Leu Leu Leu Gly Ala Gln Arg Arg Ala Val Ala Asn Gly Gly Thr
 85 90 95
 Ala Ser Pro Glu Tyr Arg Ala Ala Ser Pro Arg Leu Arg Arg Pro Lys
 100 105 110
 Ser Pro Lys Leu Pro Lys Ala Val Pro Gly Gly Ser Pro Lys Ser Pro
 115 120 125
 Ala Asn Gly Ala Val Thr Leu Pro Ala Pro Pro Pro Pro Pro Val Leu
 130 135 140
 Arg Pro Pro Arg Thr Pro Asn Ala Pro Ala Pro Cys Thr Pro Glu Glu
 145 150 155 160
 Asp Leu Thr Gly Leu Thr Ala Ser Pro Val Pro Ser Pro Thr Ala Asn
 165 170 175
 Gly Leu Ala Ala Asn Asn Asp Ser Pro Gly Ser Gly Ser Gln Ser Gly
 180 185 190
 Arg Lys Ala Lys Asp Pro Glu Arg Gly Leu Phe Pro Gly Pro Gln Lys
 195 200 205
 Ser Ser Ser Glu Gln Lys Leu Pro Leu Gln Arg Leu Pro Ser Gln Glu
 210 215 220
 Asn Glu Leu Leu Glu Asn Pro Ser Val Val Leu Ser Thr Asn Ser Pro
 225 230 235 240
 Ala Ala Leu Lys Val Gly Lys Gln Gln Ile Ile Pro Lys Ser Leu Ala

	245		250		255										
Ser	Glu	Ile	Lys	Ile	Ser	Lys	Ser	Asn	Asn	Gln	Asn	Val	Glu	Pro	His
	260		265		270										
Lys	Arg	Leu	Leu	Lys	Val	Arg	Ser	Met	Val	Glu	Gly	Leu	Gly	Gly	Pro
	275		280		285										
Leu	Gly	His	Ala	Gly	Glu	Glu	Ser	Glu	Val	Asp	Asn	Asp	Val	Asp	Ser
	290		295		300										
Pro	Gly	Ser	Leu	Arg	Arg	Gly	Leu	Arg	Ser	Thr	Ser	Tyr	Arg	Arg	Ala
305			310		315										
Val	Val	Ser	Gly	Phe	Asp	Phe	Asp	Ser	Pro	Thr	Ser	Ser	Lys	Lys	Lys
	325		330		335										
Asn	Arg	Met	Ser	Gln	Pro	Val	Leu	Lys	Val	Val	Met	Glu	Asp	Lys	Glu
	340		345		350										
Lys	Phe	Ser	Ser	Leu	Gly	Arg	Ile	Lys	Lys	Lys	Met	Leu	Lys	Gly	Gln
	355		360		365										
Gly	Thr	Phe	Asp	Gly	Glu	Glu	Asn	Ala	Val	Leu	Tyr	Gln	Asn	Tyr	Lys
	370		375		380										
Glu	Lys	Ala	Leu	Asp	Ile	Asp	Ser	Asp	Glu	Glu	Ser	Glu	Pro	Lys	Glu
385			390		395										
Gln	Lys	Ser	Asp	Glu	Lys	Ile	Val	Ile	His	His	Lys	Pro	Leu	Arg	Ser
	405		410		415										
Thr	Trp	Ser	Gln	Leu	Ser	Ala	Val	Lys	Arg	Lys	Gly	Leu	Ser	Gln	Thr
	420		425		430										
Val	Ser	Gln	Glu	Glu	Arg	Lys	Arg	Gln	Glu	Ala	Ile	Phe	Glu	Val	Ile
	435		440		445										
Ser	Ser	Glu	His	Ser	Tyr	Leu	Leu	Ser	Leu	Glu	Ile	Met	Ile	Arg	Met
	450		455		460										
Phe	Lys	Asn	Ser	Lys	Glu	Leu	Ser	Asp	Thr	Met	Thr	Lys	Thr	Glu	Arg
465			470		475										

出証特 2 0 0 4 - 3 0 5 9 6 6 1

705 710 715 720
Glu Leu Asn Ser Ser Pro Gly Lys Asn Ser Ser Thr Met Leu Tyr Ser
 725 730 735
Arg Gln Ser Ser Ala Ser His Leu Phe Thr Leu Thr Val Leu Ser Asn
 740 745 750
His Ala Asn Glu Lys Val Glu Met Leu Leu Gly Ala Glu Thr Gln Ser
 755 760 765
Glu Arg Ala Arg Ser Ile Thr Ala Leu Gly His Ser Ser Gly Lys Pro
 770 775 780
Pro Ala Asp Arg Thr Ser Leu Thr Gln Val Glu Ile Val Arg Ser Phe
785 790 795 800
Thr Ala Lys Gln Pro Asp Glu Leu Ser Leu Gln Val Ala Asp Val Val
 805 810 815
Leu Ile Tyr Gln Arg Val Ser Asp Gly Trp Tyr Glu Gly Glu Arg Leu
 820 825 830
Arg Asp Gly Glu Arg Gly Trp Phe Pro Met Glu Cys Ala Lys Glu Ile
 835 840 845
Thr Cys Gln Ala Thr Ile Asp Lys Asn Val Glu Arg Met Gly Arg Leu
 850 855 860
Leu Gly Leu Glu Thr Asn Val
865 870

<210> 2600

<211> 370

<212> PRT

<213> Homo sapiens

<400> 2600

Met	Arg	Pro	Ile	Ile	Leu	Val	Gly	Pro	Ser	Leu	Lys	Gly	Tyr	Glu	Val
1				5					10					15	
Thr	Asp	Met	Met	Gln	Lys	Ala	Leu	Phe	Asp	Phe	Leu	Lys	His	Arg	Phe
				20				25					30		
Asp	Gly	Arg	Ile	Ser	Ile	Thr	Arg	Val	Thr	Ala	Asp	Ile	Ser	Leu	Ala
				35				40					45		
Lys	Arg	Ser	Val	Leu	Asn	Asn	Pro	Ser	Lys	His	Ile	Ile	Ile	Glu	Arg
				50				55					60		
Ser	Asn	Thr	Arg	Ser	Ser	Leu	Val	Glu	Val	Gln	Ser	Glu	Ile	Glu	Arg
65						70				75					80
Ile	Phe	Glu	Leu	Ala	Arg	Thr	Leu	Gln	Leu	Val	Ala	Leu	Asp	Ala	Asp
						85				90					95
Thr	Ile	Asn	His	Pro	Ala	Gln	Leu	Ser	Lys	Thr	Ser	Leu	Ala	Pro	Ile
						100				105					110
Ile	Val	Tyr	Ile	Lys	Ile	Thr	Ser	Pro	Lys	Val	Leu	Gln	Arg	Leu	Ile
				115						120					125
Lys	Ser	Arg	Gly	Lys	Ser	Gln	Ser	Lys	His	Leu	Asn	Val	Gln	Ile	Ala
				130						135					140
Ala	Ser	Glu	Lys	Leu	Ala	Gln	Cys	Pro	Pro	Glu	Met	Leu	Asp	Ile	Ile
145						150						155			160
Leu	Asp	Glu	Asn	Gln	Leu	Glu	Asp	Ala	Cys	Glu	His	Leu	Ala	Glu	Tyr
						165						170			175
Leu	Glu	Ala	Tyr	Trp	Lys	Ala	Thr	His	Pro	Pro	Ser	Ser	Thr	Pro	Pro
						180						185			190
Asn	Pro	Leu	Leu	Asn	Arg	Thr	Met	Ala	Thr	Ala	Ala	Leu	Ala	Ala	Ser
				195						200					205
Pro	Ala	Pro	Val	Ser	Asn	Leu	Gln	Gly	Pro	Tyr	Leu	Ala	Ser	Gly	Asp
						210									220
Gln	Pro	Leu	Glu	Arg	Ala	Thr	Gly	Glu	His	Ala	Ser	Met	His	Glu	Tyr

225 230 235 240
Pro Gly Glu Leu Gly Gln Pro Pro Gly Leu Tyr Pro Ser Ser His Pro
 245 250 255
Pro Gly Arg Ala Gly Thr Leu Arg Ala Leu Ser Arg Gln Asp Thr Phe
 260 265 270
Asp Ala Asp Thr Pro Gly Ser Arg Asn Ser Ala Tyr Thr Glu Leu Gly
 275 280 285
Asp Ser Cys Val Asp Met Glu Thr Asp Pro Ser Glu Gly Pro Gly Leu
 290 295 300
Gly Asp Pro Ala Gly Gly Gly Thr Pro Pro Ala Arg Gln Gly Ser Trp
305 310 315 320
Glu Asp Glu Glu Glu Asp Tyr Glu Glu Glu Leu Thr Asp Asn Arg Asn
 325 330 335
Arg Gly Arg Asn Lys Ala Arg Tyr Cys Ala Glu Gly Gly Gly Pro Val
 340 345 350
Leu Gly Arg Asn Lys Asn Glu Leu Glu Gly Trp Gly Arg Gly Val Tyr
 355 360 365
Ile Arg
 370

<210> 2601

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2601

Met Leu Leu Pro Ala Arg Lys Gly Leu Pro Leu Ser Gln Cys Gln Gly
1 5 10 15

Pro Phe Phe Leu Trp Thr Leu Leu Arg Pro Asp Phe Phe Ser Leu Gly
 20 25 30
 Pro Ser Gly Ser Phe Ser Leu Pro Ser Pro Asn Leu Gly Ala Gly Ile
 35 40 45
 Ile Phe Phe Val Val Val Phe Tyr Phe Trp Arg Leu Ser Leu Thr Leu
 50 55 60
 Leu Leu Arg Leu Glu Cys Ser Gly Ala Ile Ser Ala His Cys His Leu
 65 70 75 80
 Arg Leu Pro Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Arg Val Ala
 85 90 95
 Gly Ile Thr Gly Ala His His His Ala Gln Leu Val Phe Val Phe Leu
 100 105 110
 Val Glu Thr Gly Leu His His Ile Gly His Ala Gly Leu Glu Leu Leu
 115 120 125
 Thr Ser Ser Asp Pro Pro Ala Leu Ala Ser Gln Ser Ala Arg Ile Thr
 130 135 140
 Gly Val Ser His His Cys Trp Pro Arg Leu Ala Leu Gly Ser Ser Phe
 145 150 155 160
 Ile Gln Leu Trp Leu Leu Pro
 165

<210> 2602

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2602

Met Ile Thr Val Ala Thr Gly His Trp Cys Ala Arg Val Ala Leu Cys

1	5	10	15
Gln Leu Met Arg His Leu Ala Ser Gln Leu Leu Asn Cys Trp Lys Phe			
20	25	30	
Lys Val Gly His Glu Gly Cys Met Tyr Thr Thr Glu Ile Lys Lys His			
35	40	45	
Tyr Lys Ser Gly Leu Ile Phe Phe Pro Arg Lys Ser Val Tyr Trp Tyr			
50	55	60	
Ile Thr Val Cys Lys Leu Phe Phe Ile Leu Cys Phe Leu Leu Arg Gly			
65	70	75	80
Met Arg Val Gly Phe Val Ser Leu Leu Asp Gly Val Val Arg Ile Ala			
85	90	95	
Lys Ser Ala Leu Cys Pro Trp Tyr Ile Leu Ser Ile Phe Ser Glu Asn			
100	105	110	
Leu Leu Ser Leu Met Leu Lys Tyr Leu Met Arg Cys Glu Ser Glu			
115	120	125	

<210> 2603

<211> 342

<212> PRT

<213> Homo sapiens

<400> 2603

Met Asp Glu Val Ser Leu Ser Ala Phe Gly Glu Trp Thr Glu Ile Pro			
1	5	10	15
Gly Ala His His Ile Ile Pro Ser Gly Phe Met Arg Val Val Glu Leu			
20	25	30	
Leu Ala Glu Gly Ile Pro Ala His Val Ile Gln Leu Gly Lys Pro Val			
35	40	45	

Arg Cys Ile His Trp Asp Gln Ala Ser Ala Arg Pro Arg Gly Pro Glu
 50 55 60
 Ile Glu Pro Arg Gly Glu Gly Asp His Asn His Asp Thr Gly Glu Gly
 65 70 75 80
 Gly Gln Gly Gly Glu Glu Pro Arg Gly Gly Arg Trp Asp Glu Asp Glu
 85 90 95
 Gln Trp Ser Val Val Val Glu Cys Glu Asp Cys Glu Leu Ile Pro Ala
 100 105 110
 Asp His Val Ile Val Thr Val Ser Leu Gly Val Leu Lys Arg Gln Tyr
 115 120 125
 Thr Ser Phe Phe Arg Pro Gly Leu Pro Thr Glu Lys Val Ala Ala Ile
 130 135 140
 His Arg Leu Gly Ile Gly Thr Thr Asp Lys Ile Phe Leu Glu Phe Glu
 145 150 155 160
 Glu Pro Phe Trp Gly Pro Glu Cys Asn Ser Leu Gln Phe Val Trp Glu
 165 170 175
 Asp Glu Ala Glu Ser His Thr Leu Thr Tyr Pro Pro Glu Leu Trp Tyr
 180 185 190
 Arg Lys Ile Cys Gly Phe Asp Val Leu Tyr Pro Pro Glu Arg Tyr Gly
 195 200 205
 His Val Leu Ser Gly Trp Ile Cys Gly Glu Glu Ala Leu Val Met Glu
 210 215 220
 Lys Cys Asp Asp Glu Ala Val Ala Glu Ile Cys Thr Glu Met Leu Arg
 225 230 235 240
 Gln Phe Thr Gly Asn Pro Asn Ile Pro Lys Pro Arg Arg Ile Leu Arg
 245 250 255
 Ser Ala Trp Gly Ser Asn Pro Tyr Phe Arg Gly Ser Tyr Ser Tyr Thr
 260 265 270
 Gln Val Gly Ser Ser Gly Ala Asp Val Glu Lys Leu Ala Lys Pro Leu

275 280 285
 Pro Tyr Thr Glu Ser Ser Lys Thr Ala Pro Met Gln Val Leu Phe Ser
 290 295 300
 Gly Glu Ala Thr His Arg Lys Tyr Tyr Ser Thr Thr His Gly Ala Leu
 305 310 315 320
 Leu Ser Gly Gln Arg Glu Ala Ala Arg Leu Ile Glu Met Tyr Arg Asp
 325 330 335
 Leu Phe Gln Gln Gly Thr
 340

<210> 2604

<211> 234

<212> PRT

<213> Homo sapiens

<400> 2604

Met Leu Pro Gly Tyr Arg Asp Pro Tyr Ser Ser Arg Pro Leu Thr Arg
 1 5 10 15
 Gly Glu Ile Gly Cys Phe Leu Ser His Tyr Ser Val Trp Lys Glu Val
 20 25 30
 Ile Asp Arg Glu Leu Glu Lys Thr Leu Val Ile Glu Asp Asp Val Arg
 35 40 45
 Phe Glu His Gln Phe Lys Lys Lys Leu Met Lys Leu Met Val Asn Ile
 50 55 60
 Asp Gln Ala Gln Leu Asp Trp Glu Leu Ile Tyr Ile Gly Arg Lys Arg
 65 70 75 80
 Met Gln Val Lys Glu Pro Glu Lys Ala Val Pro Asn Val Ala Asn Leu
 85 90 95

Val Glu Ala Asp Tyr Ser Tyr Trp Thr Leu Gly Tyr Val Ile Ser Leu
 100 105 110
 Glu Gly Ala Gln Lys Leu Val Gly Ala Asn Pro Phe Gly Lys Met Leu
 115 120 125
 Pro Val Asp Glu Phe Leu Pro Val Met Tyr Asn Lys His Pro Val Ala
 130 135 140
 Glu Tyr Lys Glu Tyr Tyr Glu Ser Arg Asp Leu Lys Ala Phe Ser Ala
 145 150 155 160
 Glu Pro Leu Leu Ile Tyr Pro Thr His Tyr Thr Gly Gln Pro Gly Tyr
 165 170 175
 Leu Ser Asp Thr Glu Thr Ser Thr Ile Trp Asp Asn Glu Thr Val Ala
 180 185 190
 Thr Asp Trp Asp Arg Thr His Ala Trp Lys Ser Arg Lys Gln Ser Arg
 195 200 205
 Ile Tyr Ser Asn Ala Lys Asn Thr Glu Ala Leu Pro Pro Pro Thr Ser
 210 215 220
 Leu Asp Thr Val Pro Ser Arg Asp Glu Leu
 225 230

<210> 2605

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2605

Met Gly Val Pro Arg Ala Arg Glu Gly Arg Gly Ala Gly Ser Gln Ser
 1 5 10 15
 Pro Pro Arg Gly Arg Cys Leu His Pro Phe Arg Trp Gly Ser Gln Asp

[illegible]

<210> 2606

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2606

Met Glu Lys Leu Ile Cys Lys Phe Lys Met Val Leu Phe Phe Phe Phe
1 5 10 15

Phe Phe Glu Thr Asp Ser Ser Phe Val Thr Gln Ala Gly Val Gln Trp
 20 25 30
 Gly Asn Leu Ser Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Gln Phe
 35 40 45
 Phe Cys Leu Ser Leu Leu Ser Thr Gly Thr Thr Gly Ala His His His
 50 55 60
 Ala Gln Leu Ile Phe Val Phe Leu Val Glu Thr Gly Val His His Val
 65 70 75 80
 Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Leu
 85 90 95
 Ala Ser Glu Ser Ala Gly Ile Thr Gly Met Ser His His Ala Trp Leu
 100 105 110
 Arg Ser Leu Phe Ser Val Phe Ser Gln Val Ile Ser
 115 120

<210> 2607

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2607

Met Val Val Gly Gly Gly Trp Gly Ala Ser Gly Leu Ser Val Ala Leu
 1 5 10 15
 Thr Trp Gly Leu Ser Ser Arg Arg Gly Trp Phe Pro Phe Ser Tyr Thr
 20 25 30
 Arg Val Leu Asp Ser Asp Gly Ser Asp Arg Leu His Met Ser Leu Gln
 35 40 45
 Gln Gly Lys Ser Ser Ser Thr Gly Asn Leu Leu Asp Lys Asp Asp Leu

50 55 60
 Ala Ile Pro Pro Pro Asp Tyr Gly Ala Ala Ser Arg Ala Phe Pro Ala
 65 70 75 80
 Gln Thr Ala Ser Gly Phe Lys Gln Arg Pro Tyr Ser Val Ala Val Pro
 85 90 95
 Ala Phe Ser Gln Val Ser Gly Arg Gly Arg Gly Trp Glu Gly Pro Ala
 100 105 110
 Gly Gly Thr Val Gly Ser Ala Cys Ser Pro Pro Leu Glu Pro Pro Leu
 115 120 125
 Arg Gly Gly Ala Pro Gly Gly Leu Gly Leu Trp Thr Ala Leu Gly
 130 135 140

<210> 2608

<211> 259

<212> PRT

<213> Homo sapiens

<400> 2608

Met Ser Gln Gly Pro Lys Thr Leu Val Lys Glu Trp Arg Ser Gln His
 1 5 10 15
 Trp Ser Ala Arg Gly Glu Trp Glu Leu Asp Gly Leu Ala Leu Gly Trp
 20 25 30
 Thr His Gly Leu Gln Pro Gln Leu Ser Cys Ala Val Glu Pro Ser Ser
 35 40 45
 His Leu Gly Met Ser Cys Pro Leu Arg Leu Pro Gly Ala Gly Arg Pro
 50 55 60
 Pro Arg Cys Arg Arg Ala Leu Lys Gly Phe Arg Gly Ser Leu Cys Arg
 65 70 75 80

Arg Gly Gln Arg Leu Ser Val Ala Ala Glu Gly Cys Gly Gly Pro Gly
 85 90 95
 Trp Ile Ala Asp Ser Arg Leu Asp Arg Arg Phe Gly Ile Ala Asp Trp
 100 105 110
 Gly Leu Asp Trp Gly Phe Gly Val Gly Ser Gly Met Trp Gly Leu Asp
 115 120 125
 Arg Gly Phe Glu Asp Trp Ile Gly Asp Leu Gly Leu Asp Pro Gly Phe
 130 135 140
 Gly Ala Gly Ser Ala Val Gly Gly Ser Glu Lys Val Thr Glu Ser Ser
 145 150 155 160
 Pro Cys Ser Gly Ala Gly Gly Trp Gly Ser Glu Lys Ser Pro Pro Pro
 165 170 175
 Arg Ser Ser Ser Ala Ser Gly Ala Ala Gly Ala Arg Trp Pro Gly Leu
 180 185 190
 His Arg Pro Arg Leu His Gly Ser Gly Tyr Arg Ile Arg Asp Ala Glu
 195 200 205
 Gln Arg Lys Ile Gln Gly Arg Leu Ser Arg Thr Gly Gly Gly Ala Arg
 210 215 220
 Pro Gly Ala Gln Glu Pro Glu Thr Trp Arg Pro Gly Thr Ser Ser Thr
 225 230 235 240
 Glu Leu Leu Tyr Ile Trp Pro Val Pro Ala Ala Met Trp Lys Trp Ser
 245 250 255
 Leu Ser Trp

<210> 2609

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2609

Met Phe Gly Phe Gly Asn His Ala Leu Leu Leu Asn Leu Leu Arg Pro
 1 5 10 15
 Gly Ala Gly Ser Leu Ser Ser Leu Ser Cys Ser Phe Leu Ile Phe Glu
 20 25 30
 Ile Val Leu Ser Pro Pro Met Ala Leu Leu Gly Phe Arg Val Cys Asn
 35 40 45
 Ile Ala Pro Leu Phe Ser Thr Gln Ser Arg His Ser Gln Leu Ser Phe
 50 55 60
 Ser Thr Val Leu Ser Ser Leu Val Ser Asp Leu Ser Ser His Pro Asn
 65 70 75 80
 Ser Trp Thr Pro Cys Ser Val Leu Pro Ser Leu Gly Ser Pro Ala Leu
 85 90 95
 Ser Ser Thr Ser Trp Pro Gln Pro Tyr Ala Pro Ala Ala Gly Pro Thr
 100 105 110
 Gly Gln Val Leu Ala Leu Ala Ser Met Val Thr Val Ala Pro Thr Ala
 115 120 125
 Arg Gly His Ala Gly Glu Ala Ala Leu Gly Ala Val Asp Gln Val Val
 130 135 140
 Ala Leu Val Ala Ile Ala Ser Glu Val Ser Leu Gln Arg Ala His Val
 145 150 155 160
 His Cys Arg Glu Gly His Arg Leu Thr Gln Lys Ala Thr Asp Glu His
 165 170 175

<210> 2610

<211> 641

<212> PRT

<213> Homo sapiens

<400> 2610

Met Arg Lys Leu Arg Pro Lys Asp Ser Arg Glu Pro Ala Pro Gly Ser
1 5 10 15
Pro Val Arg Ser Gly Cys Leu Gln Arg Leu Ser His Tyr Ser Gly Ile
20 25 30
Gln Arg Pro Phe Leu Val Leu Pro Pro Leu Met Glu Trp Ile Arg Val
35 40 45
Ala Val Ala His Ala Gly His Arg Arg Ser Phe Ser Met Asp Ser Asp
50 55 60
Asp Val Arg Gln Ala Ala Arg Leu Leu Leu Pro Gly Val Asp Cys Glu
65 70 75 80
Pro Arg Gln Leu Arg Ala Asp Asp Cys Phe Cys Ala Ser Arg Lys Leu
85 90 95
Asp Ala Val Ala Ile Glu Ala Lys Phe Lys Gln Asp Leu Gly Phe Arg
100 105 110
Met Leu Asn Cys Gly Arg Thr Asp Leu Val Lys Gln Ala Val Ser Leu
115 120 125
Leu Gly Pro Asp Gly Ile Asn Thr Met Ser Glu Gln Gly Met Thr Pro
130 135 140
Leu Met Tyr Ala Cys Val Arg Gly Asp Glu Ala Met Val Gln Met Leu
145 150 155 160
Leu Asp Ala Gly Ala Asp Leu Asn Val Glu Val Val Ser Thr Pro His
165 170 175
Lys Tyr Pro Ser Val His Pro Glu Thr Arg His Trp Thr Val Leu Thr
180 185 190
Phe Ala Val Leu His Gly His Ile Pro Val Val Gln Leu Leu Leu Asp

195 200 205
Ala Gly Ala Lys Val Glu Gly Ser Val Glu His Gly Glu Glu Asn Tyr
210 215 220
Ser Glu Thr Pro Leu Gln Leu Ala Ala Ala Val Gly Asn Phe Glu Leu
225 230 235 240
Val Ser Leu Leu Leu Glu Arg Gly Ala Asp Pro Leu Ile Gly Thr Met
245 250 255
Tyr Arg Asn Gly Ile Ser Thr Thr Pro Gln Gly Asp Met Asn Ser Phe
260 265 270
Ser Gln Ala Ala Ala His Gly His Arg Asn Val Phe Arg Lys Leu Leu
275 280 285
Ala Gln Pro Glu Lys Glu Lys Ser Asp Ile Leu Ser Leu Glu Glu Ile
290 295 300
Leu Ala Glu Gly Thr Asp Leu Ala Glu Thr Ala Pro Pro Pro Leu Cys
305 310 315 320
Ala Ser Arg Asn Ser Lys Ala Lys Leu Arg Ala Leu Arg Glu Ala Met
325 330 335
Tyr His Ser Ala Glu His Gly Tyr Val Asp Val Thr Ile Asp Ile Arg
340 345 350
Ser Ile Gly Val Pro Trp Thr Leu His Thr Trp Leu Glu Ser Leu Arg
355 360 365
Ile Ala Phe Gln Gln His Arg Arg Pro Leu Ile Gln Cys Leu Leu Lys
370 375 380
Glu Phe Lys Thr Ile Gln Glu Glu Glu Tyr Thr Glu Glu Leu Val Thr
385 390 395 400
Gln Gly Leu Pro Leu Met Phe Glu Ile Leu Lys Ala Ser Lys Asn Glu
405 410 415
Val Ile Ser Gln Gln Leu Cys Val Ile Phe Thr His Cys Tyr Gly Pro
420 425 430

Tyr Pro Ile Pro Lys Leu Thr Glu Ile Lys Arg Lys Gln Thr Ser Arg
435 440 445
Leu Asp Pro His Phe Leu Asn Asn Lys Glu Met Ser Asp Val Thr Phe
450 455 460
Leu Val Glu Gly Arg Pro Phe Tyr Ala His Lys Val Leu Leu Phe Thr
465 470 475 480
Ala Ser Pro Arg Phe Lys Ala Leu Leu Ser Ser Lys Pro Thr Asn Asp
485 490 495
Gly Thr Cys Ile Glu Ile Gly Tyr Val Lys Tyr Ser Ile Phe Gln Leu
500 505 510
Val Met Gln Tyr Leu Tyr Tyr Gly Gly Pro Glu Ser Leu Leu Ile Lys
515 520 525
Asn Asn Glu Ile Met Glu Leu Leu Ser Ala Ala Lys Phe Phe Gln Leu
530 535 540
Glu Ala Leu Gln Arg His Cys Glu Ile Ile Cys Ala Lys Ser Ile Asn
545 550 555 560
Thr Asp Asn Cys Val Asp Ile Tyr Asn His Ala Lys Phe Leu Gly Val
565 570 575
Thr Glu Leu Ser Ala Tyr Cys Glu Gly Tyr Phe Leu Lys Asn Met Met
580 585 590
Val Leu Ile Glu Asn Glu Ala Phe Lys Gln Leu Leu Tyr Asp Lys Asn
595 600 605
Gly Glu Gly Thr Gly Gln Asp Val Leu Gln Asp Leu Gln Arg Thr Leu
610 615 620
Ala Ile Arg Ile Gln Ser Ile His Leu Ser Ser Ser Lys Gly Ser Val
625 630 635 640
Val

<210> 2611

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2611

Met Phe Phe Ser Ile Gln Leu His Gly Glu Thr Phe Pro Gly Phe Ser
1 5 10 15
Pro Arg Tyr Glu Ala Arg Gln Glu Ser Gly Pro His Pro Pro Cys Leu
20 25 30
Glu Pro Ser Trp Gly Met Arg Cys Leu Glu His Met Gly Arg Leu Gly
35 40 45
Arg Gly Gln Lys Ser Leu Ile Gln Ser Gln Gly Gln Ala Leu Arg Leu
50 55 60
Lys Ser Ser Pro Arg Pro Leu Gln Glu Ser Lys Lys Lys Ser Leu Arg
65 70 75 80
Asp Ser Ser Ile Asn Asn Gln Asn Arg Glu Gln Arg Trp Arg Ala Gly
85 90 95
Gly Gln Gly Thr Glu Thr Leu Glu Ala Ser Arg Glu Lys Lys Ser Gln
100 105 110
Met Leu Glu Asp Ala Ser Ser Met Leu Gln Ser Ser Glu Gly Lys Trp
115 120 125
Leu

<210> 2612

<211> 574

<212> PRT

<213> Homo sapiens

<400> 2612

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Met Asn Pro Phe Tyr Phe His Ala Val Asn Ile Ile Leu His Cys Leu
  1             5             10             15
Val Thr Leu Val Leu Met Tyr Thr Cys Asp Lys Thr Val Phe Lys Asn
          20             25             30
Arg Gly Leu Ala Phe Val Thr Ala Leu Leu Phe Ala Val His Pro Ile
          35             40             45
His Thr Glu Ala Val Ala Gly Ile Val Gly Arg Ala Asp Val Leu Ala
          50             55             60
Cys Leu Leu Phe Leu Leu Ala Phe Leu Ser Tyr Asn Arg Ser Leu Asp
          65             70             75             80
Gln Gly Cys Val Gly Gly Ser Phe Pro Ser Thr Val Ser Pro Phe Phe
          85             90             95
Leu Leu Leu Ser Leu Phe Leu Gly Thr Cys Ala Met Leu Val Lys Glu
          100            105            110
Thr Gly Ile Thr Val Phe Gly Val Cys Leu Val Tyr Asp Leu Phe Ser
          115            120            125
Leu Ser Asn Lys Gln Asp Lys Ser Ser Asn Gly Ala Leu Cys Pro Arg
          130            135            140
Ser Pro Gln Gln Pro Gly Ser Pro Gln Pro Ser Ser Leu Pro Gly His
          145            150            155            160
Pro His Arg Glu Asn Gly Lys Gln Gln Arg Phe Pro His Lys Gly Ala
          165            170            175
Trp Gly Gly Cys His Ser Pro Leu Pro Pro Glu Pro Lys Ser Ser Gly
          180            185            190
Phe Pro Val Ser Pro Arg Ala Val Trp Ser Met Met Arg Tyr Leu Arg

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195	200	205
Ala Ser Ser Asn Arg Asn Phe Leu Leu Thr Met Arg Pro Phe Leu Lys		
210	215	220
Arg Ala Ile Leu Val Leu Ser Tyr Val Leu Val Ile Leu Tyr Phe Arg		
225	230	235
Leu Trp Ile Met Gly Gly Ser Met Pro Leu Phe Ser Glu Gln Asp Asn		
245	250	255
Pro Ala Ser Phe Ser Pro Tyr Ile Leu Thr Arg Phe Leu Thr Tyr Ser		
260	265	270
Tyr Leu Leu Ala Phe Asn Val Trp Leu Leu Leu Ala Pro Val Thr Leu		
275	280	285
Cys Tyr Asp Trp Gln Val Gly Ser Ile Pro Leu Val Glu Thr Ile Trp		
290	295	300
Asp Met Arg Asn Leu Ala Thr Ile Phe Leu Ala Val Val Met Ala Leu		
305	310	315
Leu Ser Leu His Cys Leu Ala Ala Phe Lys Arg Leu Glu His Lys Glu		
325	330	335
Val Leu Val Gly Leu Leu Phe Leu Val Phe Pro Phe Ile Pro Ala Ser		
340	345	350
Asn Leu Phe Phe Arg Val Gly Phe Val Val Ala Glu Arg Val Leu Tyr		
355	360	365
Met Pro Ser Met Gly Tyr Cys Ile Leu Phe Val His Gly Leu Ser Lys		
370	375	380
Leu Cys Thr Trp Leu Asn Arg Cys Gly Ala Thr Thr Leu Ile Val Ser		
385	390	395
Thr Val Leu Leu Leu Leu Leu Phe Ser Trp Lys Thr Val Lys Gln Asn		
405	410	415
Glu Ile Trp Leu Ser Arg Glu Ser Leu Phe Arg Ser Gly Val Gln Thr		
420	425	430

Leu Pro His Asn Ala Lys Val His Tyr Asn Tyr Ala Asn Phe Leu Lys

435

440

445

Asp Gln Gly Arg Asn Lys Glu Ala Ile Tyr His Tyr Arg Thr Ala Leu

450

455

460

Lys Leu Tyr Pro Arg His Ala Ser Ala Leu Asn Asn Leu Gly Thr Leu

465

470

475

480

Thr Arg Asp Thr Ala Glu Ala Lys Met Tyr Tyr Gln Arg Ala Leu Gln

485

490

495

Leu His Pro Gln His Asn Arg Ala Leu Phe Asn Leu Gly Asn Leu Leu

500

505

510

Lys Ser Gln Glu Lys Lys Glu Glu Ala Ile Thr Leu Leu Lys Asp Ser

515

520

525

Ile Lys Tyr Gly Pro Glu Phe Ala Asp Ala Tyr Ser Ser Leu Ala Ser

530

535

540

Leu Leu Ala Glu Gln Val Ile Val Ser His Ser Ser Phe Phe Gln Cys

545

550

555

560

Tyr Cys Tyr Met Tyr Lys Leu Met Leu His Arg Phe Leu Tyr

565

570

<210> 2613

<211> 1111

<212> PRT

<213> Homo sapiens

<400> 2613

Met Glu Arg Lys Tyr Gly Phe Phe Leu Ser Tyr Gly Lys Phe Met Val

1

5

10

15

Phe Met Lys Asn Pro Thr Arg Ser Leu Phe Thr Gln Val Arg His Met

20	25	30
Ile Ala Asp Gly Met Ile His Leu Cys Ile Tyr Ala Val Ser Ala Ile		
35	40	45
Thr Lys Asp Ala Glu Val Thr Ile Ala Phe Asp Tyr Glu Tyr Ser Asn		
50	55	60
Cys Asn Tyr Lys Val Asp Cys Ala Cys His Lys Gly Asn Arg Asn Cys		
65	70	75
Pro Ile Gln Lys Arg Asn Pro Asn Ala Thr Glu Leu Pro Leu Leu Pro		
85	90	95
Pro Pro Pro Ser Leu Pro Thr Ile Gly Ala Glu Thr Arg Arg Arg Lys		
100	105	110
Ala Arg Arg Lys Glu Leu Glu Met Glu Gln Gln Asn Glu Ala Ser Glu		
115	120	125
Glu Asn Asn Asp Gln Gln Ser Gln Glu Val Pro Glu Lys Val Thr Val		
130	135	140
Ser Ser Asp His Glu Glu Val Asp Asn Pro Glu Glu Lys Pro Glu Glu		
145	150	155
Glu Lys Glu Glu Val Ile Asp Asp Gln Glu Asn Leu Ala His Ser Arg		
165	170	175
Arg Thr Arg Glu Asp Arg Lys Val Glu Ala Ile Met His Ala Phe Glu		
180	185	190
Asn Leu Glu Lys Arg Lys Lys Arg Arg Asp Gln Pro Leu Glu Gln Ser		
195	200	205
Asn Ser Asp Val Glu Ile Thr Thr Thr Thr Ser Glu Thr Pro Val Gly		
210	215	220
Glu Glu Thr Lys Thr Glu Ala Pro Glu Ser Glu Val Ser Asn Ser Val		
225	230	235
Ser Asn Val Thr Ile Pro Ser Thr Pro Gln Ser Val Gly Val Asn Thr		
245	250	255

Arg Arg Ser Ser Gln Ala Gly Asp Ile Ala Ala Glu Lys Leu Val Pro
260 265 270
Lys Pro Pro Pro Ala Lys Pro Ser Arg Pro Arg Pro Lys Ser Arg Ile
275 280 285
Ser Arg Tyr Arg Thr Ser Ser Ala Gln Arg Leu Lys Arg Gln Lys Gln
290 295 300
Ala Asn Ala Gln Gln Ala Glu Leu Ser Gln Ala Ala Leu Glu Glu Gly
305 310 315 320
Gly Ser Asn Ser Leu Val Thr Pro Thr Glu Ala Gly Ser Leu Asp Ser
325 330 335
Ser Gly Glu Asn Arg Pro Leu Thr Gly Ser Asp Pro Thr Val Val Ser
340 345 350
Ile Thr Gly Ser His Val Asn Arg Ala Ala Ser Lys Tyr Pro Lys Thr
355 360 365
Lys Lys Tyr Leu Val Thr Glu Trp Leu Asn Asp Lys Ala Glu Lys Gln
370 375 380
Glu Cys Pro Val Glu Cys Pro Leu Arg Ile Thr Thr Asp Pro Thr Val
385 390 395 400
Leu Ala Thr Thr Leu Asn Met Leu Pro Gly Leu Ile His Ser Pro Leu
405 410 415
Ile Cys Thr Thr Pro Lys His Tyr Ile Arg Phe Gly Ser Pro Phe Ile
420 425 430
Pro Glu Arg Arg Arg Arg Pro Leu Leu Pro Asp Gly Thr Phe Ser Ser
435 440 445
Cys Lys Lys Arg Trp Ile Lys Gln Ala Leu Glu Glu Gly Met Thr Gln
450 455 460
Thr Ser Ser Val Pro Gln Glu Thr Arg Thr Gln His Leu Tyr Gln Ser
465 470 475 480
Asn Glu Asn Ser Ser Ser Ser Ser Ile Cys Lys Asp Asn Ala Asp Leu

485	490	495
Leu Ser Pro Leu Lys Lys Trp Lys Ser Arg Tyr Leu Met Glu Gln Asn		
500	505	510
Val Thr Lys Leu Leu Arg Pro Leu Ser Pro Val Thr Pro Pro Pro Pro		
515	520	525
Asn Ser Gly Ser Lys Ser Pro Gln Leu Ala Thr Pro Gly Ser Ser His		
530	535	540
Pro Gly Glu Glu Glu Cys Arg Asn Gly Tyr Ser Leu Met Phe Ser Pro		
545	550	555
Val Thr Ser Leu Thr Thr Ala Ser Arg Cys Asn Thr Pro Leu Gln Phe		
565	570	575
Glu Leu Cys His Arg Lys Asp Leu Asp Leu Ala Lys Val Gly Tyr Leu		
580	585	590
Asp Ser Asn Thr Asn Ser Cys Ala Asp Arg Pro Ser Leu Leu Asn Ser		
595	600	605
Gly His Ser Asp Leu Ala Pro His Pro Ser Leu Gly Pro Thr Ser Glu		
610	615	620
Thr Gly Phe Pro Ser Arg Ser Gly Asp Gly His Gln Thr Leu Val Arg		
625	630	635
Asn Ser Asp Gln Ala Phe Arg Thr Glu Phe Asn Leu Met Tyr Ala Tyr		
645	650	655
Ser Pro Leu Asn Ala Met Pro Arg Ala Asp Gly Leu Tyr Arg Gly Ser		
660	665	670
Pro Leu Val Gly Asp Arg Lys Pro Leu His Leu Asp Gly Gly Tyr Cys		
675	680	685
Ser Pro Ala Glu Gly Phe Ser Ser Arg Tyr Glu His Gly Leu Met Lys		
690	695	700
Asp Leu Ser Arg Gly Ser Leu Ser Pro Gly Gly Glu Arg Ala Cys Glu		
705	710	715
		720

Gly Val Pro Ser Ala Pro Gln Asn Pro Pro Gln Arg Lys Lys Val Ser
 725 730 735
 Leu Leu Glu Tyr Arg Lys Arg Lys Gln Glu Ala Lys Glu Asn Ser Ala
 740 745 750
 Gly Gly Gly Gly Asp Ser Ala Gln Ser Lys Ser Lys Ser Ala Gly Ala
 755 760 765
 Gly Gln Gly Ser Ser Asn Ser Val Ser Asp Thr Gly Ala His Gly Val
 770 775 780
 Gln Gly Ser Ser Ala Arg Thr Pro Ser Ser Pro His Lys Lys Phe Ser
 785 790 795 800
 Pro Ser His Ser Ser Met Ser His Leu Glu Ala Val Ser Pro Ser Asp
 805 810 815
 Ser Arg Gly Thr Ser Ser Ser His Cys Arg Pro Gln Glu Asn Ile Ser
 820 825 830
 Ser Arg Trp Met Val Pro Thr Ser Val Glu Arg Leu Arg Glu Gly Gly
 835 840 845
 Ser Ile Pro Lys Val Leu Arg Ser Ser Val Arg Val Ala Gln Lys Gly
 850 855 860
 Glu Pro Ser Pro Thr Trp Glu Ser Asn Ile Thr Glu Lys Asp Ser Asp
 865 870 875 880
 Pro Ala Asp Gly Glu Gly Pro Glu Thr Leu Ser Ser Ala Leu Ser Lys
 885 890 895
 Gly Ala Thr Val Tyr Ser Pro Ser Arg Tyr Ser Tyr Gln Leu Leu Gln
 900 905 910
 Cys Asp Ser Pro Arg Thr Glu Ser Gln Ser Leu Leu Gln Gln Ser Ser
 915 920 925
 Ser Pro Phe Arg Gly His Pro Thr Gln Ser Pro Gly Tyr Ser Tyr Arg
 930 935 940
 Thr Thr Ala Leu Arg Pro Gly Asn Pro Pro Ser His Gly Ser Ser Glu

945 950 955 960
Ser Ser Leu Ser Ser Thr Ser Tyr Ser Ser Pro Ala His Pro Val Ser
 965 970 975
Ile Asp Ser Leu Ala Pro Phe Thr Gly Thr Pro Gly Tyr Phe Ser Ser
 980 985 990
Gln Pro His Ser Gly Asn Ser Thr Gly Ser Asn Leu Pro Arg Arg Ser
 995 1000 1005
Cys Pro Ser Ser Ala Ala Ser Pro Thr Leu Gln Gly Pro Ser Asp Ser
 1010 1015 1020
Pro Thr Ser Asp Ser Val Ser Gln Ser Ser Thr Gly Thr Leu Ser Ser
1025 1030 1035 1040
Thr Ser Phe Pro Gln Asn Ser Arg Ser Ser Leu Pro Ser Asp Leu Arg
 1045 1050 1055
Thr Ile Ser Leu Pro Ser Ala Gly Gln Ser Ala Val Tyr Gln Ala Ser
 1060 1065 1070
Arg Val Ser Ala Val Ser Asn Ser Gln His Tyr Pro His Arg Gly Ser
 1075 1080 1085
Gly Gly Val His Gln Tyr Arg Leu Gln Pro Leu Gln Gly Ser Gly Val
 1090 1095 1100
Lys Thr Gln Thr Gly Leu Ser
1105 1110

<210> 2614

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2614

Met Asp Lys Tyr Ala Ala Glu Ala Leu Leu Glu Gly Lys Pro Glu Gly
 1 5 10 15
 Thr Phe Leu Leu Arg Asp Ser Ala Gln Glu Asp Tyr Leu Phe Ser Val
 20 25 30
 Ser Phe Arg Arg Tyr Ser Arg Ser Leu His Ala Arg Ile Glu Gln Trp
 35 40 45
 Asn His Asn Phe Ser Phe Asp Ala His Asp Pro Cys Val Phe His Ser
 50 55 60
 Pro Asp Ile Thr Gly Leu Leu Glu His Tyr Lys Asp Pro Ser Ala Cys
 65 70 75 80
 Met Phe Phe Glu Pro Leu Leu Ser Thr Pro Leu Ile Arg Thr Phe Pro
 85 90 95
 Phe Ser Leu Gln His Ile Cys Arg Thr Val Ile Cys Asn Cys Thr Thr
 100 105 110
 Tyr Asp Gly Ile Asp Ala Leu Pro Ile Pro Ser Ser Met Lys Leu Tyr
 115 120 125
 Leu Lys Glu Tyr His Tyr Lys Ser Lys Val Arg Val Leu Arg Ile Asp
 130 135 140
 Ala Pro Glu Gln Gln Cys
 145 150

<210> 2615

<211> 207

<212> PRT

<213> Homo sapiens

<400> 2615

Met Thr Asp Ala Ala His Leu Leu Ala Asp Val Gly Ser Met Met Gly

1	5	10	15
Ser Leu Phe Ser Leu Trp Leu Ser Thr Arg Pro Ala Thr Arg Thr Met			
20	25	30	
Thr Phe Gly Trp His Arg Ser Gly Lys Ala Pro Ala Trp Pro Ser Asp			
35	40	45	
Ser Pro Ile Leu Pro Glu Gly Thr Arg Gln Gly Pro Lys Gln Val Ser			
50	55	60	
Asp Ser Leu Ser Pro Pro Pro Pro Ala Glu Thr Leu Gly Ala Leu Ala			
65	70	75	80
Ser Val Val Ser Leu Trp Met Val Thr Gly Ile Leu Leu Tyr Leu Ala			
85	90	95	
Phe Val Arg Leu Leu His Ser Asp Tyr His Ile Glu Gly Gly Ala Met			
100	105	110	
Leu Leu Thr Ala Ser Ile Ala Val Cys Ala Asn Leu Leu Tyr Val Pro			
115	120	125	
Val Trp Ser Arg His Leu Val Gly Pro Arg Ala Arg Gly Leu Pro Pro			
130	135	140	
Gly Trp Glu Ser Trp Leu Ser Pro Pro His Gln Thr His Arg His Ala			
145	150	155	160
His Thr Ala Leu His Gly Leu Pro Cys Val Cys Leu Arg Arg Val Trp			
165	170	175	
Asp Arg Asp Leu Lys Phe Ser Gln Gln Ile Ser Val Lys Gly Leu Pro			
180	185	190	
Trp Ala Ser His Ser Asp Glu Gly Phe His Gln His Asp Cys Ile			
195	200	205	

<210> 2616

<211> 137

<212> PRT

<213> Homo sapiens

<400> 2616

Met Arg Lys Ser Phe Pro Leu Asn Leu Gly Gly Ser Asp Thr Cys Tyr
1 5 10 15

Phe Cys Lys Lys Arg Val Tyr Val Met Glu Arg Leu Ser Ala Glu Gly
20 25 30

His Phe Phe His Arg Glu Cys Phe Arg Cys Ser Ile Cys Ala Thr Thr
35 40 45

Leu Arg Leu Ala Ala Tyr Thr Phe Asp Cys Asp Glu Gly Lys Phe Tyr
50 55 60

Cys Lys Pro His Phe Ile His Cys Lys Thr Asn Ser Lys Gln Arg Lys
65 70 75 80

Arg Arg Ala Glu Leu Lys Gln Gln Arg Glu Glu Glu Ala Thr Trp Gln
85 90 95

Glu Gln Glu Ala Pro Arg Arg Asp Thr Pro Thr Glu Ser Ser Cys Ala
100 105 110

Val Ala Ala Ile Gly Thr Leu Glu Gly Ser Pro Pro Val His Phe Ser
115 120 125

Leu Pro Val Leu His Pro Leu Leu Gly
130 135

<210> 2617

<211> 486

<212> PRT

<213> Homo sapiens

<400> 2617

Met	Ala	Lys	Val	Asn	Arg	Ala	Arg	Ser	Thr	Ser	Pro	Pro	Asp	Gly	Gly
1				5					10					15	
Trp	Gly	Trp	Met	Ile	Val	Ala	Gly	Cys	Phe	Leu	Val	Thr	Ile	Cys	Thr
				20				25						30	
Arg	Ala	Val	Thr	Arg	Cys	Ile	Ser	Ile	Phe	Phe	Val	Glu	Phe	Gln	Thr
				35				40						45	
Tyr	Phe	Thr	Gln	Asp	Tyr	Ala	Gln	Thr	Ala	Trp	Ile	His	Ser	Ile	Val
				50				55						60	
Asp	Cys	Val	Thr	Met	Leu	Cys	Ala	Pro	Leu	Gly	Ser	Val	Val	Ser	Asn
				65				70						75	
His	Leu	Ser	Cys	Gln	Val	Gly	Ile	Met	Leu	Gly	Gly	Leu	Leu	Ala	Ser
				85				90						95	
Thr	Gly	Leu	Ile	Leu	Ser	Ser	Phe	Ala	Thr	Ser	Leu	Lys	His	Leu	Tyr
				100				105						110	
Leu	Thr	Leu	Gly	Val	Leu	Thr	Gly	Leu	Gly	Phe	Ala	Leu	Cys	Tyr	Ser
				115				120						125	
Pro	Ala	Ile	Ala	Met	Val	Gly	Lys	Tyr	Phe	Ser	Arg	Arg	Lys	Ala	Leu
				130				135						140	
Ala	Tyr	Gly	Ile	Ala	Met	Ser	Gly	Ser	Gly	Ile	Gly	Thr	Phe	Ile	Leu
				145				150						155	
Ala	Pro	Val	Val	Gln	Leu	Leu	Ile	Glu	Gln	Phe	Ser	Trp	Arg	Gly	Ala
				165				170						175	
Leu	Leu	Ile	Leu	Gly	Gly	Phe	Val	Leu	Asn	Leu	Cys	Val	Cys	Gly	Ala
				180				185						190	
Leu	Met	Arg	Pro	Ile	Thr	Leu	Lys	Glu	Asp	His	Thr	Thr	Pro	Glu	Gln
				195				200						205	
Asn	His	Val	Cys	Arg	Thr	Gln	Lys	Glu	Asp	Ile	Lys	Arg	Val	Ser	Pro
				210				215						220	

Tyr Ser Ser Leu Thr Lys Glu Trp Ala Gln Thr Cys Leu Cys Cys Cys
225 230 235 240
Leu Gln Gln Glu Tyr Ser Phe Leu Leu Met Ser Asp Phe Val Val Leu
245 250 255
Ala Val Ser Val Leu Phe Met Ala Tyr Gly Cys Ser Pro Leu Phe Val
260 265 270
Tyr Leu Val Pro Tyr Ala Leu Ser Val Gly Val Ser His Gln Gln Ala
275 280 285
Ala Phe Leu Met Ser Ile Leu Gly Val Ile Asp Ile Ile Gly Asn Thr
290 295 300
Thr Phe Gly Trp Leu Thr Asp Arg Arg Cys Leu Lys Asn Tyr Gln Tyr
305 310 315 320
Val Cys Tyr Leu Phe Ala Val Gly Met Asp Gly Leu Cys Tyr Leu Cys
325 330 335
Leu Pro Met Leu Gln Ser Leu Pro Leu Leu Val Pro Phe Ser Cys Thr
340 345 350
Phe Gly Tyr Phe Asp Gly Ala Tyr Val Thr Leu Ile Pro Val Val Thr
355 360 365
Thr Glu Ile Val Gly Thr Thr Ser Leu Ser Ser Ala Leu Gly Val Val
370 375 380
Tyr Phe Leu His Ala Val Pro Tyr Leu Val Ser Pro Pro Ile Ala Gly
385 390 395 400
Arg Leu Val Asp Thr Thr Gly Ser Tyr Thr Ala Ala Phe Leu Leu Cys
405 410 415
Gly Phe Ser Met Ile Phe Ser Ser Val Leu Leu Gly Phe Ala Arg Leu
420 425 430
Ile Lys Arg Met Arg Lys Thr Gln Leu Gln Phe Ile Ala Lys Glu Ser
435 440 445
Asp Pro Lys Leu Gln Leu Trp Thr Asn Gly Ser Val Ala Tyr Ser Val

450 455 460
 Ala Arg Glu Leu Asp Gln Lys His Gly Glu Pro Val Ala Thr Ala Val
 465 470 475 480
 Pro Gly Tyr Ser Leu Thr
 485

<210> 2618

<211> 834

<212> PRT

<213> Homo sapiens

<400> 2618

Met Lys Val Ile Val Ile His Arg Lys Met Phe Gln Arg Ala Gln Glu
 1 5 10 15
 Leu Arg Arg Arg Ala Glu Asp Tyr His Lys Cys Lys Ile Pro Pro Ser
 20 25 30
 Ala Arg Lys Ala Leu Cys Asn Trp Val Arg Met Ala Ala Ala Glu His
 35 40 45
 Arg His Ser Ser Gly Leu Pro Tyr Trp Pro Tyr Leu Thr Ala Glu Thr
 50 55 60
 Leu Lys Asn Arg Met Gly His Gln Pro Pro Pro Pro Thr Gln Gln His
 65 70 75 80
 Ser Ile Thr Asp Asn Ser Leu Ser Leu Lys Thr Pro Pro Glu Cys Val
 85 90 95
 Leu Thr Pro Leu Pro Pro Ser Ala Asp Asp Asn Leu Lys Thr Pro Pro
 100 105 110
 Glu Cys Val Leu Thr Pro Leu Pro Pro Ser Ala Asp Asp Asn Leu Lys
 115 120 125

Thr Pro Pro Glu Cys Leu Leu Thr Pro Leu Pro Pro Ser Ala Asp Asp
130 135 140
Asn Leu Lys Thr Pro Pro Glu Cys Leu Leu Thr Pro Leu Pro Pro Ser
145 150 155 160
Ala Asp Asp Asn Leu Lys Thr Pro Pro Glu Cys Leu Leu Thr Pro Leu
165 170 175
Pro Pro Ser Ala Pro Pro Ser Ala Pro Pro Ser Ala Asp Asp Asn Leu
180 185 190
Lys Thr Arg Ala Glu Cys Leu Leu His Pro Leu Pro Pro Ser Ala Asp
195 200 205
Asp Asn Leu Lys Thr Pro Ser Glu Arg Gln Leu Thr Pro Leu Pro Pro
210 215 220
Ser Ala Pro Pro Ser Ala Asp Asp Asn Ile Lys Thr Pro Ala Glu Arg
225 230 235 240
Leu Arg Gly Pro Leu Pro Pro Ser Ala Asp Asp Asn Leu Lys Thr Pro
245 250 255
Ser Glu Arg Gln Leu Thr Pro Leu Pro Pro Ser Ala Pro Pro Ser Ala
260 265 270
Asp Asp Asn Ile Lys Thr Pro Ala Glu Arg Leu Arg Gly Pro Leu Pro
275 280 285
Pro Ser Ala Asp Asp Asn Leu Lys Thr Pro Ser Glu Arg Gln Leu Thr
290 295 300
Pro Pro Pro Pro Ser Ala Pro Pro Ser Ala Asp Asp Asn Ile Lys Thr
305 310 315 320
Pro Ala Glu Arg Leu Arg Gly Pro Leu Pro Pro Ser Ala Asp Asp Asn
325 330 335
Leu Lys Thr Pro Ser Glu Arg Gln Leu Thr Pro Leu Pro Pro Ser Ala
340 345 350
Asp Asp Asn Ile Lys Thr Pro Ala Phe His Pro Gln Arg Met Ile Ile

355 360 365
Ser Arg His Leu Pro Ser Val Ser Ser Leu Pro Phe His Pro Gln Leu
370 375 380
His Ser Gln Gln Met Ile Ile Ser Arg Tyr Leu Leu Ser Val Cys Gly
385 390 395 400
Phe Arg Phe His His Gln Pro Met Ile Ile Ser Arg His Leu Pro Ser
405 410 415
Val Ser Ser Leu Pro Phe His Pro Gln Leu His Pro Gln Gln Met Ile
420 425 430
Ile Ser Arg His Leu Pro Ser Val Cys Gly Gly Arg Phe His Pro Gln
435 440 445
Arg Met Ile Ile Ser Arg His Leu Pro Ser Val Ser Ser Leu Pro Phe
450 455 460
His Pro Gln Leu His Pro Gln Gln Met Ile Ile Ser Arg His Leu Pro
465 470 475 480
Ser Val Cys Gly Gly Arg Phe His Pro Gln Arg Met Ile Ile Ser Arg
485 490 495
His Leu Pro Ser Val Ser Ser Leu Pro Phe His Pro Gln Leu His Pro
500 505 510
Gln Gln Met Ile Ile Ser Arg His Leu Pro Ser Val Cys Gly Gly Arg
515 520 525
Phe His Pro Gln Arg Met Ile Ile Ser Arg His Leu Pro Ser Val Ser
530 535 540
Ser Leu Pro Phe His Pro Gln Leu His Pro Gln Gln Met Ile Ile Ser
545 550 555 560
Arg His Leu Pro Ser Val Cys Gly Glu Arg Leu Arg Gly Pro Leu Pro
565 570 575
Pro Ser Ala Asp Asp Asn Leu Lys Thr Pro Ser Glu Arg Gln Leu Thr
580 585 590

Pro Leu Pro Pro Ser Ala Pro Pro Ser Ala Asp Asp Asn Ile Lys Thr
595 600 605

Pro Ala Glu Arg Leu Arg Gly Pro Leu Pro Pro Ser Ala Asp Asp Asn
610 615 620

Leu Lys Thr Pro Ser Glu Arg Gln Leu Thr Pro Leu Pro Pro Ser Ala
625 630 635 640

Pro Pro Ser Ala Asp Asp Asn Ile Lys Thr Pro Ala Glu Arg Leu Arg
645 650 655

Gly Pro Leu Pro Pro Ser Ala Asp Asp Asn Leu Lys Thr Pro Ser Glu
660 665 670

Arg Gln Leu Thr Pro Leu Pro Pro Ser Ala Pro Pro Ser Ala Asp Asp
675 680 685

Asn Ile Lys Thr Pro Ala Glu Arg Leu Arg Gly Pro Leu Pro Pro Ser
690 695 700

Ala Asp Asp Asn Leu Lys Thr Pro Pro Leu Ala Thr Gln Glu Ala Glu
705 710 715 720

Ala Glu Lys Pro Arg Lys Pro Lys Arg Gln Arg Ala Ala Glu Met Glu
725 730 735

Pro Pro Pro Glu Pro Lys Arg Arg Arg Val Gly Asp Val Glu Pro Ser
740 745 750

Arg Lys Pro Lys Arg Arg Arg Ala Ala Asp Val Glu Pro Ser Ser Pro
755 760 765

Glu Pro Lys Arg Arg Arg Val Gly Asp Val Glu Pro Ser Arg Lys Pro
770 775 780

Lys Arg Arg Arg Ala Ala Asp Val Glu Pro Ser Ser Pro Glu Pro Lys
785 790 795 800

Arg Arg Arg Val Gly Asp Val Glu Pro Ser Arg Lys Pro Lys Arg Arg
805 810 815

Arg Ala Ala Asp Val Glu Pro Ser Leu Pro Glu Pro Lys Arg Arg Arg

820

825

830

Leu Ser

<210> 2619

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2619

Met Cys Arg Ile Leu Leu Arg Lys Glu Val Leu Arg Leu Val Ile Asn

1

5

10

15

Leu Ser Ser Ser Val Ser Thr Lys Cys His Glu Thr Gly Leu Leu Thr

20

25

30

Ile Lys Glu Lys Tyr Pro Gln Thr Phe Asp Asp Ile Cys Leu Tyr Ser

35

40

45

Glu Val Ser His Leu Leu Ser His Cys Thr Phe Arg Leu Pro Cys Arg

50

55

60

Arg Phe Ile Gln Glu Leu Phe Gln Asp Val Gln Phe Leu Gln Met His

65

70

75

80

Glu Glu Ala Glu Ala Val Leu Ala Ile Pro Pro Lys Gln Pro Ile Val

85

90

95

Asp Thr Ser Thr Glu Ser

100

<210> 2620

<211> 254

<212> PRT

<213> Homo sapiens

<400> 2620

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Met Leu Lys Thr Pro Pro Thr Ala Val Thr Glu His Asp Val Asn Val
  1              5              10              15
Ala Phe Gln Gln Ser Ala His Lys Val Leu Leu Asp Asp Asp Asn Leu
          20              25              30
Leu Pro Leu Leu His Leu Thr Ile Glu Tyr His Gly Lys Glu His Lys
          35              40              45
Asp Ala Thr Gln Ala Arg Glu Gly Pro Ser Arg Glu Thr Ser Pro Arg
          50              55              60
Glu Ala Pro Ala Ser Gly Trp Ala Ala Leu Gly Leu Ser Tyr Lys Val
          65              70              75              80
Gln Trp Pro Leu His Ile Leu Phe Thr Pro Ala Val Leu Glu Lys Tyr
          85              90              95
Asn Val Val Phe Lys Tyr Leu Leu Ser Val Arg Arg Val Gln Ala Glu
          100             105             110
Leu Gln His Cys Trp Ala Leu Gln Met Gln Arg Lys His Leu Lys Ser
          115             120             125
Asn Gln Thr Asp Ala Ile Lys Trp Arg Leu Arg Asn His Met Ala Phe
          130             135             140
Leu Val Asp Asn Leu Gln Tyr Tyr Leu Gln Val Asp Val Leu Glu Ser
          145             150             155             160
Gln Phe Ser Gln Leu Leu His Gln Ile Asn Ser Thr Arg Asp Phe Glu
          165             170             175
Ser Ile Arg Leu Ala His Asp His Phe Leu Ser Asn Leu Leu Ala Gln
          180             185             190
Ser Phe Ile Leu Leu Lys Pro Val Ser Lys Ala His Trp Phe Pro Gln

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195 200 205
 Thr Ala Ser Thr Thr Asp His Ser Leu Arg Gln Phe Glu Leu Thr Gly
 210 215 220
 Tyr Glu Thr Ile Ile Lys Gln Leu Phe Lys Ser Ile Leu Lys His Phe
 225 230 235 240
 Leu Arg Met Cys Lys Ala Ala Gly His Gly Gly Ser Cys Leu
 245 250

<210> 2621

<211> 1455

<212> PRT

<213> Homo sapiens

<400> 2621

Met Glu His Asn Gln Gly Glu Pro Leu Pro Phe Pro Pro Thr Gly Gly
 1 5 10 15
 Cys Trp Ser Pro Leu Val Asp Tyr Val Pro Glu Thr Ser Ser Pro Gly
 20 25 30
 Leu Pro Leu His Arg Cys Asn Ile Ala Val Ile Leu Leu Thr Asp Leu
 35 40 45
 Ile Ile Asp His Ser Val Lys Val Glu Trp Gly Ser Tyr Leu His Leu
 50 55 60
 Leu Leu His Ala Ile Phe Ile Gly Phe Asp His Cys His Pro Glu Val
 65 70 75 80
 Tyr Glu His Cys Lys Arg Leu Leu Leu His Leu Leu Ile Val Met Gly
 85 90 95
 Pro Asn Ser Asn Ile Arg Thr Val Ala Ser Val Leu Leu Arg Asn Lys
 100 105 110

Glu Phe Asn Glu Pro Arg Val Leu Thr Val Lys Gln Val Ala His Leu
 115 120 125
 Asp Tyr Asn Phe Thr Ala Gly Ile Asn Asp Phe Ile Pro Asp Tyr Gln
 130 135 140
 Pro Ser Pro Met Thr Asp Ser Gly Leu Ser Ser Ser Ser Thr Ser Ser
 145 150 155 160
 Ser Ile Ser Leu Gly Asn Asn Ser Ala Ala Ile Ser His Leu His Thr
 165 170 175
 Thr Ile Leu Asn Glu Val Asp Ile Ser Val Glu Gln Asp Gly Lys Val
 180 185 190
 Lys Thr Leu Met Glu Phe Ile Thr Ser Arg Lys Arg Gly Pro Leu Trp
 195 200 205
 Asn His Glu Asp Val Ser Ala Lys Asn Pro Ser Ile Lys Ser Ala Glu
 210 215 220
 Gln Leu Thr Thr Phe Leu Lys His Val Val Ser Val Phe Lys Gln Ser
 225 230 235 240
 Ser Ser Glu Gly Ile His Leu Glu His His Leu Ser Glu Val Ala Leu
 245 250 255
 Gln Thr Ala Leu Ser Cys Ser Ser Arg His Tyr Ala Gly Arg Ser Phe
 260 265 270
 Gln Ile Phe Arg Ala Leu Lys Gln Pro Leu Thr Ala Thr Thr Leu Ser
 275 280 285
 Asp Val Leu Ser Arg Leu Val Glu Thr Val Gly Asp Pro Gly Glu Asp
 290 295 300
 Ala Gln Gly Phe Val Ile Glu Leu Leu Leu Thr Leu Glu Ser Ala Ile
 305 310 315 320
 Asp Thr Leu Ala Glu Thr Met Lys His Tyr Asp Leu Leu Ser Ala Leu
 325 330 335
 Ser Gln Thr Ser Tyr His Asp Pro Ile Met Gly Asn Lys Tyr Ala Ala

340	345	350
Asn Arg Lys Ser Thr Gly Gln Leu Asn Leu Ser Thr Ser Pro Ile Asn		
355	360	365
Ser Ser Ser Tyr Leu Gly Tyr Asn Ser Asn Ala Arg Ser Asn Ser Leu		
370	375	380
Arg Leu Ser Leu Ile Gly Asp Arg Arg Gly Asp Arg Arg Arg Ser Asn		
385	390	395
Thr Leu Asp Ile Met Asp Gly Arg Ile Asn His Ser Ser Ser Leu Ala		
405	410	415
Arg Thr Arg Ser Leu Ser Ser Leu Arg Glu Lys Gly Met Tyr Asp Val		
420	425	430
Gln Ser Thr Thr Glu Pro Thr Asn Leu Met Ala Thr Ile Phe Trp Ile		
435	440	445
Ala Ala Ser Leu Leu Glu Ser Asp Tyr Glu Tyr Glu Tyr Leu Leu Ala		
450	455	460
Leu Arg Leu Leu Asn Lys Leu Leu Ile His Leu Pro Leu Asp Lys Ser		
465	470	475
Glu Ser Arg Glu Lys Ile Glu Asn Val Gln Ser Lys Leu Lys Trp Thr		
485	490	495
Asn Phe Pro Gly Leu Gln Gln Leu Phe Leu Lys Gly Phe Thr Ser Ala		
500	505	510
Ser Thr Gln Glu Met Thr Val His Leu Leu Ser Lys Leu Ile Ser Val		
515	520	525
Ser Lys His Thr Leu Val Asp Pro Ser Gln Leu Ser Gly Phe Pro Leu		
530	535	540
Asn Ile Leu Cys Leu Leu Pro His Leu Ile Gln His Phe Asp Ser Pro		
545	550	555
Thr Gln Phe Cys Lys Glu Thr Ala Ser Arg Ile Ala Lys Val Cys Ala		
565	570	575

Glu Glu Lys Cys Pro Thr Leu Val Asn Leu Ala His Met Met Ser Leu
 580 585 590
 Tyr Ser Thr His Thr Tyr Ser Arg Asp Cys Ser Asn Trp Ile Asn Val
 595 600 605
 Val Cys Arg Tyr Leu His Asp Ser Phe Ser Asp Thr Thr Phe Asn Leu
 610 615 620
 Val Thr Tyr Leu Ala Glu Leu Leu Glu Lys Gly Leu Ser Ser Met Gln
 625 630 635 640
 Gln Ser Leu Leu Gln Ile Ile Tyr Ser Leu Leu Ser His Ile Asp Leu
 645 650 655
 Ser Ala Ala Pro Ala Lys Gln Phe Asn Leu Glu Ile Ile Lys Ile Ile
 660 665 670
 Gly Lys Tyr Val Gln Ser Pro Tyr Trp Lys Glu Ala Leu Asn Ile Leu
 675 680 685
 Lys Leu Val Val Ser Arg Ser Ala Ser Leu Val Val Pro Ser Asp Ile
 690 695 700
 Pro Lys Thr Tyr Gly Gly Asp Thr Gly Ser Pro Glu Ile Ser Phe Thr
 705 710 715 720
 Lys Ile Phe Asn Asn Val Ser Lys Glu Leu Pro Gly Lys Thr Leu Asp
 725 730 735
 Phe His Phe Asp Ile Ser Glu Thr Pro Ile Ile Gly Asn Lys Tyr Gly
 740 745 750
 Asp Gln His Ser Ala Ala Gly Arg Asn Gly Lys Pro Lys Val Ile Ala
 755 760 765
 Val Thr Arg Ser Thr Ser Ser Thr Ser Ser Gly Ser Asn Ser Asn Ala
 770 775 780
 Leu Val Pro Val Ser Trp Lys Arg Pro Gln Leu Ser Gln Arg Arg Thr
 785 790 795 800
 Arg Glu Lys Leu Met Asn Val Leu Ser Leu Cys Gly Pro Glu Ser Gly

805	810	815
Leu Pro Lys Asn Pro Ser Val Val Phe Ser Ser Asn Glu Asp Leu Glu		
820	825	830
Val Gly Asp Gln Gln Thr Ser Leu Ile Ser Thr Thr Glu Asp Ile Asn		
835	840	845
Gln Glu Glu Glu Val Ala Val Glu Asp Asn Ser Ser Glu Gln Gln Phe		
850	855	860
Gly Val Phe Lys Asp Phe Asp Phe Leu Asp Val Glu Leu Glu Asp Ala		
865	870	875
Glu Gly Glu Ser Met Asp Asn Phe Asn Trp Gly Val Arg Arg Arg Ser		
885	890	895
Leu Asp Ser Ile Asp Lys Gly Asp Thr Pro Ser Leu Gln Glu Tyr Gln		
900	905	910
Cys Ser Ser Ser Thr Pro Ser Leu Asn Leu Thr Asn Gln Glu Asp Thr		
915	920	925
Asp Glu Ser Ser Glu Glu Glu Ala Ala Leu Thr Ala Ser Gln Ile Leu		
930	935	940
Ser Arg Thr Gln Met Leu Asn Ser Asp Ser Ala Thr Asp Glu Thr Ile		
945	950	955
Pro Asp His Pro Asp Leu Leu Leu Gln Ser Glu Asp Ser Thr Gly Ser		
965	970	975
Ile Thr Thr Glu Glu Val Leu Gln Ile Arg Asp Glu Thr Pro Thr Leu		
980	985	990
Glu Ala Ser Leu Asp Asn Ala Asn Ser Arg Leu Pro Glu Asp Thr Thr		
995	1000	1005
Ser Val Leu Lys Glu Glu His Val Thr Thr Phe Glu Asp Glu Gly Ser		
1010	1015	1020
Tyr Ile Ile Gln Glu Gln Gln Glu Ser Leu Val Cys Gln Gly Ile Leu		
1025	1030	1035
		1040

Asp Leu Glu Glu Thr Glu Met Pro Glu Pro Leu Ala Pro Glu Ser Tyr
1045 1050 1055
Pro Glu Ser Val Cys Glu Glu Asp Val Thr Leu Ala Leu Lys Glu Leu
1060 1065 1070
Asp Glu Arg Cys Glu Glu Glu Glu Ala Asp Phe Ser Gly Leu Ser Ser
1075 1080 1085
Gln Asp Glu Glu Glu Gln Asp Gly Phe Pro Glu Val Gln Thr Ser Pro
1090 1095 1100
Leu Pro Ser Pro Phe Leu Ser Ala Ile Ile Ala Ala Phe Gln Pro Val
1105 1110 1115 1120
Ala Tyr Asp Asp Glu Glu Glu Ala Trp Arg Cys His Val Asn Gln Met
1125 1130 1135
Leu Ser Asp Thr Asp Gly Ser Ser Ala Val Phe Thr Phe His Val Phe
1140 1145 1150
Ser Arg Leu Phe Gln Thr Ile Gln Arg Lys Phe Gly Glu Ile Thr Asn
1155 1160 1165
Glu Ala Val Ser Phe Leu Gly Asp Ser Leu Gln Arg Ile Gly Thr Lys
1170 1175 1180
Phe Lys Ser Ser Leu Glu Val Met Met Leu Cys Ser Glu Cys Pro Thr
1185 1190 1195 1200
Val Phe Val Asp Ala Glu Thr Leu Met Ser Cys Gly Leu Leu Glu Thr
1205 1210 1215
Leu Lys Phe Gly Val Leu Glu Leu Gln Glu His Leu Asp Thr Tyr Asn
1220 1225 1230
Val Lys Arg Glu Ala Ala Glu Gln Trp Leu Asp Asp Cys Lys Arg Thr
1235 1240 1245
Phe Gly Ala Lys Glu Asp Met Tyr Arg Ile Asn Thr Asp Ala Gln Gln
1250 1255 1260
Met Glu Ile Leu Ala Glu Leu Glu Leu Cys Arg Arg Leu Tyr Lys Leu

1265 1270 1275 1280
His Phe Gln Leu Leu Leu Leu Phe Gln Ala Tyr Cys Lys Leu Ile Asn
 1285 1290 1295
Gln Val Asn Thr Ile Lys Asn Glu Ala Glu Val Ile Asn Met Ser Glu
 1300 1305 1310
Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys Glu Ala Glu Ser Ala Ser
 1315 1320 1325
Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala Ala Gln Thr Thr Ile Glu
 1330 1335 1340
Thr Ala Ile His Ser Leu Ile Glu Thr Leu Lys Asn Lys Glu Phe Ile
1345 1350 1355 1360
Ser Ala Val Ala Gln Val Lys Ala Phe Arg Ser Leu Trp Pro Ser Asp
 1365 1370 1375
Ile Phe Gly Ser Cys Glu Asp Asp Pro Val Gln Thr Leu Leu His Ile
 1380 1385 1390
Tyr Phe His His Gln Thr Leu Gly Gln Thr Gly Ser Phe Ala Val Ile
 1395 1400 1405
Gly Ser Asn Leu Asp Met Ser Glu Ala Asn Tyr Lys Leu Met Glu Leu
 1410 1415 1420
Asn Leu Glu Ile Arg Glu Ser Leu Arg Met Val Gln Ser Tyr Gln Leu
1425 1430 1435 1440
Leu Ala Gln Ala Lys Pro Met Gly Asn Met Val Ser Thr Gly Phe
 1445 1450 1455

<210> 2622

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2622

Met Ser Ile Thr Gln His Phe Thr Thr His Val Leu Pro Gln Arg Ala
 1 5 10 15
 Gly Leu Pro Ser Glu Leu Phe Ser Thr Gly Trp Val Arg Trp Leu Thr
 20 25 30
 Pro Val Ile Pro Ala Leu Trp Glu Ala Glu Val Gly Gly Ser Pro Glu
 35 40 45
 Val Gly Ser Ser Arg Pro Ala Trp Leu Thr Trp Trp Asn Pro Val Ser
 50 55 60
 Thr Lys Asn Thr Glu Ile Gly Cys Val Trp Trp Arg Thr Pro Val Ile
 65 70 75 80
 Pro Ala Thr Trp Glu Ala Lys Asn Leu Gly Gly Gly Gly Cys Ser Glu
 85 90 95
 Pro Gly Leu Cys His Cys Thr Pro Asp Trp Val Thr Trp Pro Thr Asp
 100 105 110
 Gln Asp Pro Val
 115

<210> 2623

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2623

Met Val Thr Lys Ala Thr Phe His Gln Lys Thr Gln Cys Trp Ala Cys
 1 5 10 15
 Glu Glu Gly Val Gln Gln Ser Phe His Cys Pro Cys Arg Leu Gln Ala

	20		25		30										
Ala	Ala	Ser	Val	Glu	Arg	Tyr	Thr	Glu	Leu	Leu	Lys	Glu	Phe	Leu	Phe
	35						40					45			
Lys	Val	Gln	Ser	Ser	Asp	Trp	Met	Pro	Cys	Trp	Ile	Pro	Leu	Leu	Pro
	50					55					60				
Gln	Ala	Leu	Ile	Thr	Leu	Ser	Ser	Cys	Ser	Leu	Gly	Lys	Cys	Thr	Phe
65					70					75				80	
Tyr	Thr	Asn	Val	Arg	Gln	Phe	Pro	Gln	Leu	Pro	Leu	Leu	Asp	Ile	Lys
			85						90				95		
Glu	Phe	Thr	Phe	Leu	Thr	Ile	Phe	Gln	Ser						
	100							105							

<210> 2624

<211> 343

<212> PRT

<213> Homo sapiens

<400> 2624

Met	Phe	His	Leu	Leu	Val	Gly	Leu	Val	Leu	Ala	Phe	Pro	Ala	Leu	Gln
1				5					10					15	
Cys	Gln	Asp	Phe	Ser	Gly	Ile	Ser	Leu	Gly	Thr	Gly	Asp	Leu	His	Ile
			20						25				30		
Phe	His	Leu	Val	Thr	Met	Ala	His	Ile	Ile	Gln	Ile	Leu	Leu	Thr	Ser
		35					40					45			
Cys	Thr	Glu	Glu	Asn	Gly	Met	Asp	Gln	Glu	Asn	Pro	Pro	Cys	Glu	Glu
	50					55					60				
Glu	Ser	Ala	Val	Leu	Ala	Leu	Tyr	Lys	Thr	Leu	His	Gln	Tyr	Thr	Gly
65					70					75				80	

Ser Ala Leu Lys Glu Ile Pro Ser Gly Trp His Leu Trp Arg Ser Val
 85 90 95
 Arg Ala Gly Ile Met Pro Phe Leu Lys Cys Ser Ala Leu Phe Phe His
 100 105 110
 Tyr Leu Asn Gly Val Pro Ser Pro Pro Asp Ile Gln Val Pro Gly Thr
 115 120 125
 Ser His Phe Glu His Leu Cys Ser Tyr Leu Ser Leu Pro Asn Asn Leu
 130 135 140
 Ile Cys Leu Phe Gln Glu Asn Ser Glu Ile Met Asn Ser Leu Ile Glu
 145 150 155 160
 Ser Trp Cys Arg Asn Ser Glu Val Lys Arg Tyr Leu Glu Gly Glu Arg
 165 170 175
 Asp Ala Ile Arg Tyr Pro Arg Glu Ser Asn Lys Leu Ile Asn Leu Pro
 180 185 190
 Glu Asp Tyr Ser Ser Leu Ile Asn Gln Ala Ser Asn Phe Ser Cys Pro
 195 200 205
 Lys Ser Gly Gly Asp Lys Ser Arg Ala Pro Thr Leu Cys Leu Val Cys
 210 215 220
 Gly Ser Leu Leu Cys Ser Gln Ser Tyr Cys Cys Gln Thr Glu Leu Glu
 225 230 235 240
 Gly Glu Asp Val Gly Ala Cys Thr Ala His Thr Tyr Ser Cys Gly Ser
 245 250 255
 Gly Val Gly Ile Phe Leu Arg Val Arg Glu Cys Gln Val Leu Phe Leu
 260 265 270
 Ala Gly Lys Thr Lys Gly Cys Phe Tyr Ser Pro Pro Tyr Leu Asp Asp
 275 280 285
 Tyr Gly Glu Thr Asp Gln Gly Leu Arg Arg Gly Asn Pro Leu His Leu
 290 295 300
 Cys Lys Glu Arg Phe Lys Lys Ile Gln Lys Leu Trp His Gln His Ser

305 310 315 320
 Val Thr Glu Glu Ile Gly His Ala Gln Glu Ala Asn Gln Thr Leu Val
 325 330 335
 Gly Ile Asp Trp Gln His Leu
 340

<210> 2625

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2625

Met Tyr Gly Ala Thr Gln Ser Gln Ser Asp Met Ala Ala Ala Thr Pro
 1 5 10 15
 Leu Leu Gln Ser Glu Pro Ser Leu Thr Ser Asp Glu Leu His Leu Pro
 20 25 30
 Gly Lys Pro Gly Leu Gly Thr Pro Cys Ala Ser Leu Thr Leu Gly Pro
 35 40 45
 Pro Thr Pro Pro Ala Ser Met Pro Asn Leu Ala Glu Ala Thr Leu Ala
 50 55 60
 Asp Val Met Pro Arg Lys Asp Glu His Met Gly His Gln Phe Leu Thr
 65 70 75 80
 Pro Asp Glu Ala Pro Ser Pro Pro Arg Leu Leu Ala Ala Gly Ser Pro
 85 90 95
 Leu Ala His Ser Arg Thr Met His Val Leu Gly Leu Ala Ser Gln Asp
 100 105 110
 Ser Leu His Glu Asp Ser Val Arg Gly Leu Val Lys Leu Ser Ser Val
 115 120 125

<210> 2626

<211> 223

<212> PRT

<213> Homo sapiens

<400> 2626

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Met Ser Arg Ser Pro His Leu Ser Leu Gln Arg Leu Cys Cys Leu Gly
  1             5             10             15
Phe Leu Pro Leu Ala Leu Ala Gly Gln Ala Trp Leu Leu Thr Pro Ser
          20             25             30
Val Cys Trp Ser Ser Gln Ala Ala Ser Gly Asp Arg Leu Pro Gly His
          35             40             45
Arg Pro Pro Leu Leu Pro Gly Ser Pro Leu Pro Lys Pro Leu Thr Trp
          50             55             60
Gln Gly Val Thr Gly Thr Ser Gly Leu Ser Ala Cys Trp Ala Pro Ala
          65             70             75             80
Pro Ser Gln Phe Cys Arg Pro Ser Phe Pro Pro Arg Thr Ala Pro Ser
          85             90             95
Cys Thr Ala Val Ser Pro Thr Ala Gly Ala Ser Leu Gly Pro Thr Gly
          100            105            110
Pro Leu Pro Ser Thr His Gln Ala Leu Pro His Leu Asp Pro Leu Lys
          115            120            125
Cys Ser Ser Leu Thr Asn Gly Leu Ala Glu Gly Arg Met Ala Pro Ala
          130            135            140
Ala Pro Thr Pro Ala Leu Trp Val Asp Ala Pro Ser Leu Pro Ala Gln
          145            150            155            160
Ala Pro Trp Cys Leu Leu Ser Pro Gly His Arg Gly Ala Thr Ser Leu

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	165		170		175										
Pro	Asp	Thr	Met	Met	Leu	Pro	Pro	Ser	Arg	Ala	Leu	Trp	Cys	His	Leu
	180		185		190										
Pro	Ala	Glu	Ala	Leu	Trp	Cys	Arg	Leu	Pro	Pro	Gly	His	Gly	Gly	Ala
	195		200		205										
Ala	Ser	Leu	Pro	Gly	Ala	Val	Val	Pro	Pro	Pro	Ser	Arg	Ala	Ser	
	210		215		220										

<210> 2627

<211> 533

<212> PRT

<213> Homo sapiens

<400> 2627

Met	Asn	Tyr	Glu	Gly	Ala	Arg	Ser	Glu	Arg	Glu	Asn	His	Ala	Ala	Asp
1				5				10					15		
Asp	Ser	Glu	Gly	Gly	Ala	Leu	Asp	Met	Cys	Cys	Ser	Glu	Arg	Leu	Pro
			20					25					30		
Gly	Leu	Pro	Gln	Pro	Ile	Val	Met	Glu	Ala	Leu	Asp	Glu	Ala	Glu	Gly
		35					40					45			
Leu	Gln	Asp	Ser	Gln	Arg	Glu	Met	Pro	Pro	Pro	Pro	Pro	Pro	Ser	Pro
		50					55					60			
Pro	Ser	Asp	Pro	Ala	Gln	Lys	Pro	Pro	Pro	Arg	Gly	Ala	Gly	Ser	His
	65				70					75				80	
Ser	Leu	Thr	Val	Arg	Ser	Ser	Leu	Cys	Leu	Phe	Ala	Ala	Ser	Gln	Phe
				85						90				95	
Leu	Leu	Glu	Pro	Thr	Ala	Trp	Leu	Asp	Ser	Gly	Thr	Trp	Gly	Val	Pro
			100							105				110	

Ser Leu Leu Leu Val Phe Leu Ser Val Gly Leu Val Leu Val Thr Thr
115 120 125
Leu Val Trp His Leu Leu Arg Thr Pro Pro Glu Pro Pro Thr Pro Leu
130 135 140
Pro Pro Glu Asp Arg Arg Gln Ser Val Ser Arg Gln Pro Ser Phe Thr
145 150 155 160
Tyr Ser Glu Trp Met Glu Glu Lys Ile Glu Asp Asp Phe Leu Asp Leu
165 170 175
Asp Pro Val Pro Glu Thr Pro Val Phe Asp Cys Val Met Asp Ile Lys
180 185 190
Pro Glu Ala Asp Pro Thr Ser Leu Thr Val Lys Ser Met Gly Leu Gln
195 200 205
Glu Arg Arg Gly Ser Asn Val Ser Leu Thr Leu Asp Met Cys Thr Pro
210 215 220
Gly Cys Asn Glu Glu Gly Phe Gly Tyr Leu Met Ser Pro Arg Glu Glu
225 230 235 240
Ser Ala Arg Glu Tyr Leu Leu Ser Ala Ser Arg Val Leu Gln Ala Glu
245 250 255
Glu Leu His Glu Lys Ala Leu Asp Pro Phe Leu Leu Gln Ala Glu Phe
260 265 270
Phe Glu Ile Pro Met Asn Phe Val Asp Pro Lys Glu Tyr Asp Ile Pro
275 280 285
Gly Leu Val Arg Lys Asn Arg Tyr Lys Thr Ile Leu Pro Asn Pro His
290 295 300
Ser Arg Val Cys Leu Thr Ser Pro Asp Pro Asp Asp Pro Leu Ser Ser
305 310 315 320
Tyr Ile Asn Ala Asn Tyr Ile Arg Gly Tyr Gly Gly Glu Glu Lys Val
325 330 335
Tyr Ile Ala Thr Gln Gly Pro Ile Val Ser Thr Val Ala Asp Phe Trp

340	345	350
Arg Met Val Trp Gln Glu His Thr Pro Ile Ile Val Met Ile Thr Asn		
355	360	365
Ile Glu Glu Met Asn Glu Lys Cys Thr Glu Tyr Trp Pro Glu Glu Gln		
370	375	380
Val Ala Tyr Asp Gly Val Glu Ile Thr Val Gln Lys Val Ile His Thr		
385	390	395
Glu Asp Tyr Arg Leu Arg Leu Ile Ser Leu Lys Ser Gly Thr Glu Glu		
405	410	415
Arg Gly Leu Lys His Tyr Trp Phe Thr Ser Trp Pro Asp Gln Lys Thr		
420	425	430
Pro Asp Arg Ala Pro Pro Leu Leu His Leu Val Arg Glu Val Glu Glu		
435	440	445
Ala Ala Gln Gln Glu Gly Pro His Cys Ala Pro Ile Ile Val His Cys		
450	455	460
Ser Ala Gly Ile Gly Arg Thr Gly Cys Phe Ile Ala Thr Ser Ile Cys		
465	470	475
Cys Gln Gln Leu Arg Gln Glu Gly Val Val Asp Ile Leu Lys Thr Thr		
485	490	495
Cys Gln Leu Arg Gln Asp Arg Gly Gly Met Ile Gln Thr Cys Glu Gln		
500	505	510
Tyr Gln Phe Val His His Val Met Ser Leu Tyr Glu Lys Gln Leu Ser		
515	520	525
His Gln Ser Pro Glu		
530		

<210> 2628

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2628

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Met Ala Ala Asp Leu Leu Arg Ser Phe Trp His Ser Leu Glu Asp Pro
  1             5             10             15
Val Val His Ser Phe Gln Ala Glu Ala Thr Thr Ala Ser Ser Leu Pro
             20             25             30
Leu Cys Gln Ser Cys Leu Asn Arg Trp Met Val Gly Thr Asp Gly Ser
             35             40             45
Ser Met Leu Ala Met Arg Tyr Arg Phe Tyr Asp Asn Arg Thr Met Thr
             50             55             60
Val Phe Lys Ser Ile Lys Ile His Pro Pro Ile Leu Gly Ile Ile Met
             65             70             75             80
Cys Pro Arg Leu Tyr Phe Asn Ser Asp Leu Asp Pro Val Val Gly Leu
             85             90             95
Ile Gln Asp Leu Tyr Leu Ser Phe Lys Ala Cys Leu Leu Ser Asn
             100            105            110

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<210> 2629

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2629

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Met Phe Pro Gln Ala Gly Leu Glu Leu Leu Asp Leu Ser Asn Pro Pro
  1             5             10             15
Thr Ser Ala Ser Gln Arg Val Gly Ile Lys Gly Val Ser Pro His Val

```


Val Lys Thr Gly Phe Arg His Val Gly Gln Ala Gly Leu Gly Leu Leu
 65 70 75 80
 Thr Ser Gly Asp Pro Pro Arg Leu Ala Cys Ser Val Thr Phe Asp Lys
 85 90 95
 Ala Asn Asn Phe Trp Phe Leu Gly Ile Ser Phe Leu Pro Ile
 100 105 110

<210> 2631

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2631

Met Pro Ala Ala Leu Gly Pro Lys Ala Phe Ala Glu Glu Leu His Glu
 1 5 10 15
 Arg Val Arg Arg Glu Leu Trp Ala Tyr Cys Gly Ser Glu Gln Leu Asp
 20 25 30
 Val Ala Asp Leu Arg Arg Leu Arg Tyr Lys Gly Ile Arg Pro Ala Pro
 35 40 45
 Gly Tyr Pro Ser Gln Pro Asp His Thr Glu Lys Leu Thr Met Trp Arg
 50 55 60
 Leu Ala Asp Ile Glu Gln Ser Thr Gly Ile Arg Leu Thr Glu Ser Leu
 65 70 75 80
 Ala Met Ala Pro Ala Ser Ala Val Ser Gly Leu Tyr Phe Ser Asn Leu
 85 90 95
 Lys Ser Lys Tyr Phe Ala Val Gly Lys Ile Ser Lys Asp Gln Val Glu
 100 105 110
 Asp Tyr Ala Leu Arg Lys Asn Ile Ser Val Ala Glu Val Glu Lys Trp

115 120 125
 Leu Gly Pro Ile Leu Gly Tyr Asp Thr Asp
 130 135

<210> 2632

<211> 303

<212> PRT

<213> Homo sapiens

<400> 2632

Met Ser His Leu Gln Gly Gln Pro Pro Ala Asp Pro Gln Pro Arg Pro
 1 5 10 15
 Ala Leu Pro Ala Ala Pro Trp Ala Cys Leu Cys Pro His Ser His Pro
 20 25 30
 Val His Ser Cys Val Ser Val Ala Gly Asp Arg Gly Trp Gly Lys Gly
 35 40 45
 Leu Arg Tyr Thr Arg Gly Cys Arg Asp Pro Gln His Gly Cys Pro Gly
 50 55 60
 Ser Ser Leu Trp Lys Cys Arg Ile Gly Ser Gly Pro Gln Ser Cys Ala
 65 70 75 80
 Gly Pro Ser Val Pro Ser Pro Ser Pro Glu Ser Leu Leu Pro Ala Ser
 85 90 95
 Ala Ala Pro Arg Val Val Gly Ala Thr Ser Leu Gly Ser Gly Leu Gly
 100 105 110
 Ala Phe Val Met Pro Ala Trp Gly Leu Ser Lys Ser Ser Pro Arg Gly
 115 120 125
 Leu Ser Lys Ser Ser Pro Arg Gly Leu Ser Lys Ser Ser Pro Arg Gly
 130 135 140

Leu Ser Met Ser Ser Pro Arg Gly Leu Ser Lys Ser Ser Pro Arg Gly
145 150 155 160
Leu Ser Lys Ser Ser Pro Trp Gly Leu Ser Lys Ser Ser Pro Arg Gly
165 170 175
Leu Ser Met Ser Ser Pro Arg Gly Leu Ser Lys Ser Ser Pro Arg Gly
180 185 190
Leu Ser Lys Ser Ser Pro Trp Gly Leu Ser Lys Ser Phe Leu Cys Arg
195 200 205
Leu Ser Lys Ser Ser Pro Trp Val Leu Ser Met Ser Ser Pro Gln Gly
210 215 220
Leu Ser Lys Ser Ser Pro Arg Gly Leu Ser Lys Ser Ser Pro Arg Gly
225 230 235 240
Leu Ser Met Ser Ser Pro Arg Gly Leu Ser Lys Ser Ser Pro Arg Gly
245 250 255
Leu Ile Met Ser Ser Pro Arg Gly Leu Ser Met Ser Ser Pro Arg Gly
260 265 270
Leu Ser Lys Ser Ser Pro Trp Gly Leu Ser Met Ser Ser Pro Arg Gly
275 280 285
Leu Ser Lys Ser Ser Pro Arg Gly Leu Cys Pro Pro His Gly Val
290 295 300

<210> 2633

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2633

Met Gly Arg Val Gly Thr Asp Ala Gly Ile Ala His Lys Met Leu Ala

1 5 10 15
Gln Gly Thr Leu His Gly Arg Ser Leu Gln Glu Ser Lys Val Thr Thr
 20 25 30
Phe Arg Asp Ser Leu His Ser Glu Ala Arg Arg Ala Trp Pro Thr Lys
 35 40 45
Arg Gly Trp Glu Asp Val Ala Cys Trp Ser Gly Gln Pro Ser Asp Gln
 50 55 60
Gly Gly Arg Leu Arg Leu Gly Gly Trp Cys Pro Leu Val Arg Ala Ala
65 70 75 80
Glu Arg Gly Trp Glu Asp Gly Ala Cys Trp Ser Gly Gln Pro Ser Gly
 85 90 95
Gln Gly Gly Gln Ala Arg Gln Gly Gly Arg Tyr Pro Pro Val Arg Ala
 100 105 110
Ala Glu Gln Ser Trp Lys Asp Gly Ala Cys Trp Ser Gly Arg Leu Asn
 115 120 125
Glu Ala Gly Arg Met Val Ser Ala Gly Gln Gly Ser Ser Gly Gly Ala
 130 135 140
Ala Gln Glu Val Leu Ser Arg Gln Ser Leu Gly Leu Val Trp Val Cys
145 150 155 160
His Ala Pro Glu Lys Phe Leu Gly Cys Gly Phe Asn Val Leu Leu Gln
 165 170 175

<210> 2634

<211> 465

<212> PRT

<213> Homo sapiens

<400> 2634

Met Gly Gly Ala Val Val Asp Glu Gly Pro Thr Gly Val Lys Ala Pro
 1 5 10 15
 Asp Gly Gly Trp Gly Trp Ala Val Leu Phe Gly Cys Phe Val Ile Thr
 20 25 30
 Gly Phe Ser Tyr Ala Phe Pro Lys Ala Val Ser Val Phe Phe Lys Glu
 35 40 45
 Leu Ile Gln Glu Phe Gly Ile Gly Tyr Ser Asp Thr Ala Trp Ile Ser
 50 55 60
 Ser Ile Leu Leu Ala Met Leu Tyr Gly Thr Gly Pro Leu Cys Ser Val
 65 70 75 80
 Cys Val Asn Arg Phe Gly Cys Arg Pro Val Met Leu Val Gly Gly Leu
 85 90 95
 Phe Ala Ser Leu Gly Met Val Ala Ala Ser Phe Cys Arg Ser Ile Ile
 100 105 110
 Gln Val Tyr Leu Thr Thr Gly Val Ile Thr Gly Leu Gly Leu Ala Leu
 115 120 125
 Asn Phe Gln Pro Ser Leu Ile Met Leu Asn Arg Tyr Phe Ser Lys Arg
 130 135 140
 Arg Pro Met Ala Asn Gly Leu Ala Ala Ala Gly Ser Pro Val Phe Leu
 145 150 155 160
 Cys Ala Leu Ser Pro Leu Gly Gln Leu Leu Gln Asp Arg Tyr Gly Trp
 165 170 175
 Arg Gly Gly Phe Leu Ile Leu Gly Gly Leu Leu Leu Asn Cys Cys Val
 180 185 190
 Cys Ala Ala Leu Met Arg Pro Leu Val Val Thr Ala Gln Pro Gly Ser
 195 200 205
 Gly Pro Pro Arg Pro Ser Arg Arg Leu Leu Asp Leu Ser Val Phe Arg
 210 215 220
 Asp Arg Gly Phe Val Leu Tyr Ala Val Ala Ala Ser Val Met Val Leu

225 230 235 240
Gly Leu Phe Val Pro Pro Val Phe Val Val Ser Tyr Ala Lys Asp Leu
 245 250 255
Gly Val Pro Asp Thr Lys Ala Ala Phe Leu Leu Thr Ile Leu Gly Phe
 260 265 270
Ile Asp Ile Phe Ala Arg Pro Ala Ala Gly Phe Val Ala Gly Leu Gly
 275 280 285
Lys Val Arg Pro Tyr Ser Val Tyr Leu Phe Ser Phe Ser Met Phe Phe
 290 295 300
Asn Gly Leu Ala Asp Leu Ala Gly Ser Thr Ala Gly Asp Tyr Gly Gly
305 310 315 320
Leu Val Val Phe Cys Ile Phe Phe Gly Ile Ser Tyr Gly Met Val Gly
 325 330 335
Ala Leu Gln Phe Glu Val Leu Met Ala Ile Val Gly Thr His Lys Phe
 340 345 350
Ser Ser Ala Ile Gly Leu Val Leu Leu Met Glu Ala Val Ala Val Leu
 355 360 365
Val Gly Pro Pro Ser Gly Gly Lys Leu Leu Asp Ala Thr His Val Tyr
 370 375 380
Met Tyr Val Phe Ile Leu Ala Gly Ala Glu Val Leu Thr Ser Ser Leu
385 390 395 400
Ile Leu Leu Leu Gly Asn Phe Phe Cys Ile Arg Lys Lys Pro Lys Glu
 405 410 415
Pro Gln Pro Glu Val Ala Ala Ala Glu Glu Glu Lys Leu His Lys Pro
 420 425 430
Pro Ala Asp Ser Gly Val Asp Leu Arg Glu Val Glu His Phe Leu Lys
 435 440 445
Ala Glu Pro Glu Lys Asn Gly Glu Val Val His Thr Pro Glu Thr Ser
 450 455 460

Val

465

<210> 2635

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2635

Met Cys Leu Glu Leu Phe His Ser Ser Asn Val Ile Asp Gly Leu Lys

1

5

10

15

Leu Asn Ala Phe Ala Ala Val Phe Thr Val Leu Ser Gly Leu Leu Gly

20

25

30

Met Val Ala His Met Met Tyr Thr Gln Val Phe Gln Val Thr Val Ser

35

40

45

Leu Gly Pro Glu Asp Trp Arg Pro His Ser Trp Asp Tyr Gly Trp Ser

50

55

60

Phe Cys Leu Ala Trp Gly Ser Phe Thr Cys Cys Lys Ala Ala Ser Val

65

70

75

80

Thr Thr Leu Asn Ser Tyr Thr Lys Thr Val Ile Glu Phe Arg His Lys

85

90

95

Arg Lys Val Phe Glu Gln Gly Tyr Arg Glu Glu Pro Thr Phe Ile Asp

100

105

110

Pro Glu Ala Ile Lys Tyr Phe Arg Glu Arg Met Glu Lys Arg Asp Gly

115

120

125

Ser Glu Glu Asp Phe His Leu Asp Cys Arg His Glu Arg Tyr Pro Ala

130

135

140

Arg His Gln Pro His Met Ala Asp Ser Trp Pro Arg Ser Ser Ala Gln

145 150 155 160
Glu Ala Pro Glu Leu Asn Arg Gln Cys Trp Val Leu Gly His Trp Val
 165 170 175

<210> 2636

<211> 200

<212> PRT

<213> Homo sapiens

<400> 2636

Met Asn Gly His Phe Ser Gly Glu Asp Ile Tyr Ala Ala Lys Lys His
1 5 10 15
Met Lys Arg Cys Ser Ser Ser Leu Ala Ile Gly Glu Val Gln Val Arg
 20 25 30
Thr Thr Val Gly Tyr His Leu Thr Pro Val Arg Met Ala Val Val Arg
 35 40 45
Lys Ser Gly Ser Asn Gly Cys Trp Arg Gly Cys Gly Glu Val Gly Thr
 50 55 60
Leu Leu His Cys Trp Trp Asp Cys Arg Leu Val Gln Pro Leu Gly Gly
65 70 75 80
Ser Val Trp Pro Phe Leu Gly Asp Leu Glu Val Glu Val Pro Phe Asp
 85 90 95
Pro Ala Ile Pro Leu Leu Gly Met Tyr Pro Lys Asp Tyr Gly Ser Cys
 100 105 110
Cys Tyr Arg Asp Ala Cys Thr Arg Val Phe Ile Val Ala Leu Phe Thr
 115 120 125
Val Ala Lys Thr Trp Asn Gln Leu Lys Cys Pro Ala Met Ile Asp Trp
130 135 140

Ile Gln Glu Val Trp Arg Met Tyr Thr Met Glu Tyr Tyr Ala Ala Ile
 145 150 155 160
 Glu Asn Asp Gly Phe Met Ser Phe Val Gly Thr Trp Met Lys Leu Glu
 165 170 175
 Ile Ile Ile Leu Ser Lys Leu Ser Gln Glu Gln Lys Thr Lys His Cys
 180 185 190
 Ile Phe Ser Leu Ile Gly Gly Asn
 195 200

<210> 2637

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2637

Met Glu Lys Ser Lys Ala Asn Thr Ser His Val Trp Glu Gln Gly Gln
 1 5 10 15
 Arg Gly Pro Val Gly Met Leu Phe Ser Ser Gln Ser Leu Arg Trp Val
 20 25 30
 Gly Thr Ala Val Arg Val Leu Phe Pro Ser Leu Arg Asn Pro Pro Leu
 35 40 45
 Pro Thr Pro Pro Leu Thr Ala Ser Asp His Pro Ala Glu Gly Pro Ala
 50 55 60
 Ser Cys Ser Thr Pro Ala Leu Thr Glu Arg Ala Asn Ser Ser Ser Ser
 65 70 75 80
 Ile Gln Ile His Pro Cys Phe Ile Tyr Leu Pro Gly Lys Lys Lys Asn
 85 90 95
 Asn Leu Thr Ser Thr Phe Tyr

100

<210> 2638

<211> 159

<212> PRT

<213> Homo sapiens

<400> 2638

Met Ala Leu Leu His Thr Arg Leu Arg Thr Ser Ala Arg Pro Leu Leu

1 5 10 15

Ala Cys Gly Ser Arg Ser Gly Cys Gly Glu Trp Val Glu Arg Ala Ser

20 25 30

Cys Arg Pro Val Trp Gly Ser Tyr Ser Leu Gly Phe Leu Gln Val Arg

35 40 45

Ser Leu Leu Lys Gly Ser Ile Ala Ala Arg Gln Leu Cys Leu His Arg

50 55 60

Gly Pro Cys Leu Lys Asn Ile Asp Phe Thr Thr Ile Val Gly Cys Leu

65 70 75 80

Gly Tyr Ser Leu Leu Phe His Leu Thr Val Cys Cys Gln Ile Phe Thr

85 90 95

His Ile Leu Glu Cys Phe Leu Lys Ile Lys Ile Gln Val Val Lys Leu

100 105 110

Pro Asp Gln Gly Ile Gly Tyr Ile Phe Pro Arg Leu Arg Phe Arg Lys

115 120 125

Ala Val Asp Glu Val Leu Gly Ala Phe Leu Phe His Arg Ser Pro Pro

130 135 140

Glu Leu Gly Leu His Gln Ile Cys Val Leu Cys Arg Val Ser Arg

145 150 155

<210> 2639

<211> 991

<212> PRT

<213> Homo sapiens

<400> 2639

Met Ala Asp Lys Val Arg Arg Gln Arg Pro Arg Arg Arg Val Cys Trp

1 5 10 15

Ala Leu Val Ala Val Leu Leu Ala Asp Leu Leu Ala Leu Ser Asp Thr

20 25 30

Leu Ala Val Met Ser Val Asp Leu Gly Ser Glu Ser Met Lys Val Ala

35 40 45

Ile Val Leu Asn Lys Glu Ser Arg Arg Lys Thr Pro Val Ile Val Thr

50 55 60

Leu Lys Glu Asn Glu Arg Phe Phe Gly Asp Ser Ala Ala Ser Met Ala

65 70 75 80

Ile Lys Asn Pro Lys Ala Thr Leu Arg Tyr Phe Gln His Leu Leu Gly

85 90 95

Lys Gln Ala Asp Asn Pro His Val Ala Leu Tyr Gln Ala Arg Phe Pro

100 105 110

Glu His Glu Leu Thr Phe Asp Pro Gln Arg Gln Thr Val His Phe Gln

115 120 125

Ile Ser Ser Gln Leu Gln Phe Ser Pro Glu Glu Val Leu Gly Met Val

130 135 140

Leu Asn Tyr Ser Arg Ser Leu Ala Glu Asp Phe Ala Glu Gln Pro Ile

145 150 155 160

Lys Asp Ala Val Ile Thr Val Pro Val Phe Phe Asn Gln Ala Glu Arg

165	170	175
Arg Ala Val Leu Gln Ala Ala Arg Met Ala Gly Leu Lys Val Leu Gln		
180	185	190
Leu Ile Asn Asp Asn Thr Ala Thr Ala Leu Ser Tyr Gly Val Phe Arg		
195	200	205
Arg Lys Asp Ile Asn Thr Thr Ala Gln Asn Ile Met Phe Tyr Asp Met		
210	215	220
Gly Ser Gly Ser Thr Val Cys Thr Ile Val Thr Tyr Gln Met Val Lys		
225	230	235
240		
Thr Lys Glu Ala Gly Met Gln Pro Gln Leu Gln Ile Arg Gly Val Gly		
245	250	255
Phe Asp Arg Thr Leu Gly Gly Leu Glu Met Glu Leu Arg Leu Arg Glu		
260	265	270
Arg Leu Ala Gly Leu Phe Asn Glu Gln Arg Lys Gly Gln Arg Ala Lys		
275	280	285
Asp Val Arg Glu Asn Pro Arg Ala Met Ala Lys Leu Leu Arg Glu Ala		
290	295	300
Asn Arg Leu Lys Thr Val Leu Ser Ala Asn Ala Asp His Met Ala Gln		
305	310	315
320		
Ile Glu Gly Leu Met Asp Asp Val Asp Phe Lys Ala Lys Val Thr Arg		
325	330	335
Val Glu Phe Glu Glu Leu Cys Ala Asp Leu Phe Glu Arg Val Pro Gly		
340	345	350
Pro Val Gln Gln Ala Leu Gln Ser Ala Glu Met Ser Leu Asp Glu Ile		
355	360	365
Glu Gln Val Ile Leu Val Gly Gly Ala Thr Arg Val Pro Arg Val Gln		
370	375	380
Glu Val Leu Leu Lys Gly Val Gly Lys Glu Glu Leu Gly Lys Asn Ile		
385	390	395
400		

Asn Ala Asp Glu Ala Ala Ala Met Gly Ala Val Tyr Gln Ala Ala Ala
 405 410 415
 Leu Ser Lys Ala Phe Lys Val Lys Pro Phe Val Val Arg Asp Ala Val
 420 425 430
 Val Tyr Pro Ile Leu Val Glu Phe Thr Arg Glu Val Glu Glu Glu Pro
 435 440 445
 Gly Ile His Ser Leu Lys His Asn Lys Arg Val Leu Phe Ser Arg Met
 450 455 460
 Gly Pro Tyr Pro Gln Arg Lys Val Ile Thr Phe Asn Arg Tyr Ser His
 465 470 475 480
 Asp Phe Asn Phe His Ile Asn Tyr Gly Asp Leu Gly Phe Leu Gly Pro
 485 490 495
 Glu Asp Leu Arg Val Phe Gly Ser Gln Asn Leu Thr Thr Val Lys Leu
 500 505 510
 Lys Gly Val Gly Asp Ser Phe Lys Lys Tyr Pro Asp Tyr Glu Ser Lys
 515 520 525
 Gly Ile Lys Ala His Phe Asn Leu Asp Glu Ser Gly Val Leu Ser Leu
 530 535 540
 Asp Arg Val Glu Ser Val Phe Glu Thr Leu Val Glu Asp Ser Ala Glu
 545 550 555 560
 Glu Glu Ser Thr Leu Thr Lys Leu Gly Asn Thr Ile Ser Ser Leu Phe
 565 570 575
 Gly Gly Gly Thr Thr Pro Asp Ala Lys Glu Asn Gly Thr Asp Thr Val
 580 585 590
 Gln Glu Glu Glu Glu Ser Pro Ala Glu Gly Ser Lys Asp Glu Pro Gly
 595 600 605
 Glu Gln Val Glu Leu Lys Glu Glu Ala Glu Ala Pro Val Glu Asp Gly
 610 615 620
 Ser Gln Pro Pro Pro Pro Glu Pro Lys Gly Asp Ala Thr Pro Glu Gly

625 630 635 640
Glu Lys Ala Thr Glu Lys Glu Asn Gly Asp Lys Ser Glu Ala Gln Lys
 645 650 655
Pro Ser Glu Lys Ala Glu Ala Gly Pro Glu Gly Val Ala Pro Ala Pro
 660 665 670
Glu Gly Glu Lys Lys Gln Lys Pro Ala Arg Lys Arg Arg Met Val Glu
 675 680 685
Glu Ile Gly Val Glu Leu Val Val Leu Asp Leu Pro Asp Leu Pro Glu
 690 695 700
Asp Lys Leu Ala Gln Ser Val Gln Lys Leu Gln Asp Leu Thr Leu Arg
705 710 715 720
Asp Leu Glu Lys Gln Glu Arg Glu Lys Ala Ala Asn Ser Leu Glu Ala
 725 730 735
Phe Ile Phe Glu Thr Gln Asp Lys Leu Tyr Gln Pro Glu Tyr Gln Glu
 740 745 750
Val Ser Thr Glu Glu Gln Arg Glu Glu Ile Ser Gly Lys Leu Ser Ala
 755 760 765
Ala Ser Thr Trp Leu Glu Asp Glu Gly Val Gly Ala Thr Thr Val Met
 770 775 780
Leu Lys Glu Lys Leu Ala Glu Leu Arg Lys Leu Cys Gln Gly Leu Phe
785 790 795 800
Phe Arg Val Glu Glu Arg Lys Lys Trp Pro Glu Arg Leu Ser Ala Leu
 805 810 815
Asp Asn Leu Leu Asn His Ser Ser Met Phe Leu Lys Gly Ala Arg Leu
 820 825 830
Ile Pro Glu Met Asp Gln Ile Phe Thr Glu Val Glu Met Thr Thr Leu
 835 840 845
Glu Lys Val Ile Asn Glu Thr Trp Ala Trp Lys Asn Ala Thr Leu Ala
 850 855 860

Glu Gln Ala Lys Leu Pro Ala Thr Glu Lys Pro Val Leu Leu Ser Lys
 865 870 875 880
 Asp Ile Glu Ala Lys Met Met Ala Leu Asp Arg Glu Val Gln Tyr Leu
 885 890 895
 Leu Asn Lys Ala Lys Phe Thr Lys Pro Arg Pro Arg Pro Lys Asp Lys
 900 905 910
 Asn Gly Thr Arg Ala Glu Pro Pro Leu Asn Ala Ser Ala Ser Asp Gln
 915 920 925
 Gly Glu Lys Val Ile Pro Pro Ala Gly Gln Thr Glu Asp Ala Glu Pro
 930 935 940
 Ile Ser Glu Pro Glu Lys Val Glu Thr Ala Gly Ser Glu Pro Gly Asp
 945 950 955 960
 Thr Glu Pro Leu Glu Leu Gly Gly Pro Gly Ala Glu Pro Glu Gln Lys
 965 970 975
 Glu Gln Ser Thr Gly Gln Lys Arg Pro Leu Lys Asn Asp Glu Leu
 980 985 990

<210> 2640

<211> 830

<212> PRT

<213> Homo sapiens

<400> 2640

Met Lys Arg Gly Arg Leu Pro Ser Ser Ser Glu Asp Ser Asp Asp Asn
 1 5 10 15
 Gly Ser Leu Ser Thr Thr Trp Ser Gln Asn Ser Arg Ser Gln His Arg
 20 25 30
 Arg Ser Ser Cys Ser Arg His Glu Asp Arg Lys Pro Ser Glu Val Phe

35	40	45
Arg Thr Asp Leu Ile Thr Ala Met Lys Leu His Asp Ser Tyr Gln Leu		
50	55	60
Asn Pro Asp Glu Tyr Tyr Val Leu Ala Asp Pro Trp Arg Gln Glu Trp		
65	70	75
Glu Lys Gly Val Gln Val Pro Val Ser Pro Gly Thr Ile Pro Gln Pro		
85	90	95
Val Ala Arg Pro Lys Lys Tyr Ile Val Ser Ser Gly Ser Glu Pro Pro		
100	105	110
Glu Leu Gly Tyr Val Asp Ile Arg Thr Leu Ala Asp Ser Val Cys Arg		
115	120	125
Tyr Asp Leu Asn Asp Met Asp Ala Ala Trp Leu Glu Leu Thr Asn Glu		
130	135	140
Glu Phe Lys Glu Met Gly Met Pro Glu Leu Asp Glu Tyr Thr Met Glu		
145	150	155
Arg Val Leu Glu Glu Phe Glu Gln Arg Cys Tyr Asp Asn Met Asn His		
165	170	175
Ala Ile Glu Thr Glu Glu Gly Leu Gly Ile Glu Tyr Asp Glu Asp Val		
180	185	190
Val Cys Asp Val Cys Gln Ser Pro Asp Gly Glu Asp Gly Asn Glu Met		
195	200	205
Val Phe Cys Asp Lys Cys Asn Ile Cys Val His Gln Ala Cys Tyr Gly		
210	215	220
Ile Leu Lys Val Pro Glu Gly Ser Trp Leu Cys Arg Thr Cys Ala Leu		
225	230	235
Gly Val Gln Pro Lys Cys Leu Leu Cys Pro Lys Lys Gly Gly Ala Met		
245	250	255
Lys Pro Thr Arg Ser Gly Thr Lys Trp Val His Val Ser Cys Ala Leu		
260	265	270

Trp Ile Pro Glu Val Ser Ile Gly Ser Pro Glu Lys Met Glu Pro Ile
275 280 285

Thr Lys Val Ser His Ile Pro Ser Ser Arg Trp Ala Leu Val Cys Ser
290 295 300

Leu Cys Asn Glu Lys Phe Gly Ala Ser Ile Gln Cys Ser Val Lys Asn
305 310 315 320

Cys Arg Thr Ala Phe His Val Thr Cys Ala Phe Asp Arg Gly Leu Glu
325 330 335

Met Lys Thr Ile Leu Ala Glu Asn Asp Glu Val Lys Phe Lys Ser Tyr
340 345 350

Cys Pro Lys His Ser Ser His Arg Lys Pro Glu Glu Ser Leu Gly Lys
355 360 365

Gly Ala Ala Gln Glu Asn Gly Ala Pro Glu Cys Ser Pro Arg Asn Pro
370 375 380

Leu Glu Pro Phe Ala Ser Leu Glu Gln Asn Arg Glu Glu Ala His Arg
385 390 395 400

Val Ser Val Arg Lys Gln Lys Leu Gln Gln Leu Glu Asp Glu Phe Tyr
405 410 415

Thr Phe Val Asn Leu Leu Asp Val Ala Arg Ala Leu Arg Leu Pro Glu
420 425 430

Glu Val Val Asp Phe Leu Tyr Gln Tyr Trp Lys Leu Lys Arg Lys Val
435 440 445

Asn Phe Asn Lys Pro Leu Ile Thr Pro Lys Lys Asp Glu Glu Asp Asn
450 455 460

Leu Ala Lys Arg Glu Gln Asp Val Leu Phe Arg Arg Leu Gln Leu Phe
465 470 475 480

Thr His Leu Arg Gln Asp Leu Glu Arg Val Arg Asn Leu Thr Tyr Met
485 490 495

Val Thr Arg Arg Glu Lys Ile Lys Arg Ser Val Cys Lys Val Gln Glu

500 505 510
Gln Ile Phe Asn Leu Tyr Thr Lys Leu Leu Glu Gln Glu Arg Val Ser
515 520 525
Gly Val Pro Ser Ser Cys Ser Ser Ser Ser Leu Glu Asn Met Leu Leu
530 535 540
Phe Asn Ser Pro Ser Val Gly Pro Asp Ala Pro Lys Ile Glu Asp Leu
545 550 555 560
Lys Trp His Ser Ala Phe Phe Arg Lys Gln Met Gly Thr Ser Leu Val
565 570 575
His Ser Leu Lys Lys Pro His Lys Arg Asp Pro Leu Gln Asn Ser Pro
580 585 590
Gly Ser Glu Gly Lys Thr Leu Leu Lys Gln Pro Asp Leu Cys Gly Arg
595 600 605
Arg Glu Gly Met Val Val Pro Glu Ser Phe Leu Gly Leu Glu Lys Thr
610 615 620
Phe Ala Glu Ala Arg Leu Ile Ser Ala Gln Gln Lys Asn Gly Val Val
625 630 635 640
Met Pro Asp His Gly Lys Arg Arg Asp Asn Arg Phe His Cys Asp Leu
645 650 655
Ile Lys Gly Asp Leu Lys Asp Lys Ser Phe Lys Gln Ser His Lys Pro
660 665 670
Leu Arg Ser Thr Asp Val Ser Gln Arg His Leu Asp Asn Thr Arg Ala
675 680 685
Ala Thr Ser Pro Gly Val Gly Gln Ser Ala Pro Gly Thr Arg Lys Glu
690 695 700
Ile Val Pro Lys Cys Asn Gly Ser Leu Ile Lys Val Asn Tyr Asn Gln
705 710 715 720
Thr Ala Val Lys Val Pro Thr Thr Pro Ala Ser Pro Val Lys Asn Trp
725 730 735

Gly Gly Phe Arg Ile Pro Lys Lys Gly Glu Arg Gln Gln Gln Gly Glu

740

745

750

Ala His Asp Gly Ala Cys His Gln His Ser Asp Tyr Pro Tyr Leu Gly

755

760

765

Leu Gly Arg Val Pro Ala Lys Glu Arg Ala Lys Ser Lys Leu Lys Ser

770

775

780

Asp Asn Glu Asn Asp Gly Tyr Val Pro Asp Val Glu Met Ser Asp Ser

785

790

795

800

Glu Ser Glu Ala Ser Glu Lys Lys Cys Ile His Thr Ser Ser Thr Ile

805

810

815

Ser Arg Arg Thr Asp Ile Ile Arg Arg Ser Ile Leu Ala Ser

820

825

830

<210> 2641

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2641

Met Ala Lys Arg Arg Arg Ser Val Met Ser Arg Tyr Thr Ser Ser Cys

1

5

10

15

Gly Ser Gln Arg Arg Gly Ser Cys Ser Val Glu Leu Arg Ile Phe Phe

20

25

30

Thr Pro Cys Lys Val Lys Glu Gln Arg Cys Glu Gln Arg Gly Ala Ala

35

40

45

Ala Gln Leu Asp Arg His Leu Leu Phe Arg Phe Leu Glu Ala Ala Ala

50

55

60

Ala Gly Gln Gly Ala Thr Thr Thr Ala Pro Arg Ala Pro Ala Glu Ala

65 70 75 80
Arg Ala Ser Ala Ala Arg Ala Leu Arg Thr Ala Gly Thr Glu Arg Pro
 85 90 95
Cys Gly Asp Gly Arg Ser Gln Arg Ser Pro Glu Gly Gly Gly Gly Ala
 100 105 110
Gly Ala Arg Gly Gly Ala Trp Pro Thr Ala Pro Ala Pro Leu Pro Pro
 115 120 125
Ala Thr Ala Leu Pro Leu Leu Phe
 130 135

<210> 2642

<211> 1265

<212> PRT

<213> Homo sapiens

<400> 2642

Met Glu Ala Glu Lys Asp Ser Gly Arg Arg Leu Arg Pro Ile Asp Arg
1 5 10 15
Gln Arg Tyr Asp Glu Asn Glu Asp Leu Ser Asp Val Glu Glu Ile Val
 20 25 30
Ser Val Arg Gly Phe Ser Leu Glu Glu Lys Leu Arg Ser Gln Leu Tyr
 35 40 45
Gln Gly Asp Phe Val His Ala Met Glu Gly Lys Asp Phe Asn Tyr Glu
50 55 60
Tyr Val Gln Arg Glu Ala Leu Arg Val Pro Leu Ile Phe Arg Glu Lys
65 70 75 80
Asp Gly Leu Gly Ile Lys Met Pro Asp Pro Asp Phe Thr Val Arg Asp
 85 90 95

Val Lys Leu Leu Val Gly Ser Arg Arg Leu Val Asp Val Met Asp Val
100 105 110
Asn Thr Gln Lys Gly Thr Glu Met Ser Met Ser Gln Phe Val Arg Tyr
115 120 125
Tyr Glu Thr Pro Glu Ala Gln Arg Asp Lys Leu Tyr Asn Val Ile Ser
130 135 140
Leu Glu Phe Ser His Thr Lys Leu Glu His Leu Val Lys Arg Pro Thr
145 150 155 160
Val Val Asp Leu Val Asp Trp Val Asp Asn Met Trp Pro Gln His Leu
165 170 175
Lys Glu Lys Gln Thr Glu Ala Thr Asn Ala Ile Ala Glu Met Lys Tyr
180 185 190
Pro Lys Val Lys Lys Tyr Cys Leu Met Ser Val Lys Gly Cys Phe Thr
195 200 205
Asp Phe His Ile Asp Phe Gly Gly Thr Ser Val Trp Tyr His Val Phe
210 215 220
Arg Gly Gly Lys Ile Phe Trp Leu Ile Pro Pro Thr Leu His Asn Leu
225 230 235 240
Ala Leu Tyr Glu Glu Trp Val Leu Ser Gly Lys Gln Ser Asp Ile Phe
245 250 255
Leu Gly Asp Arg Val Glu Arg Cys Gln Arg Ile Glu Leu Lys Gln Gly
260 265 270
Tyr Thr Phe Phe Ile Pro Ser Gly Trp Ile His Ala Val Tyr Thr Pro
275 280 285
Val Asp Ser Leu Val Phe Gly Gly Asn Ile Leu His Ser Phe Asn Val
290 295 300
Pro Met Gln Leu Arg Ile Tyr Glu Ile Glu Asp Arg Thr Arg Val Gln
305 310 315 320
Pro Lys Phe Arg Tyr Pro Phe Tyr Tyr Glu Met Cys Trp Tyr Val Leu

	325		330		335
Glu Arg Tyr Val Tyr Cys Val Thr Gln Arg Ser His Leu Thr Gln Glu					
	340		345		350
Tyr Gln Arg Glu Ser Met Leu Ile Asp Ala Pro Arg Lys Pro Ser Ile					
	355		360		365
Asp Gly Phe Ser Ser Asp Ser Trp Leu Glu Met Glu Glu Glu Ala Cys					
	370		375		380
Asp Gln Gln Pro Gln Glu Glu Glu Glu Lys Asp Glu Glu Gly Glu Gly					
385		390		395	400
Arg Asp Arg Ala Pro Lys Pro Pro Thr Asp Gly Ser Thr Ser Pro Thr					
	405		410		415
Ser Thr Pro Ser Glu Asp Gln Glu Ala Leu Gly Lys Lys Pro Lys Ala					
	420		425		430
Pro Ala Leu Arg Phe Leu Lys Arg Thr Leu Ser Asn Glu Ser Glu Glu					
	435		440		445
Ser Val Lys Ser Thr Thr Leu Ala Val Asp Tyr Pro Lys Thr Pro Thr					
	450		455		460
Gly Ser Pro Ala Thr Glu Val Ser Ala Lys Trp Thr His Leu Thr Glu					
465		470		475	480
Phe Glu Leu Lys Gly Leu Lys Ala Leu Val Glu Lys Leu Glu Ser Leu					
	485		490		495
Pro Glu Asn Lys Lys Cys Val Pro Glu Gly Ile Glu Asp Pro Gln Ala					
	500		505		510
Leu Leu Glu Gly Val Lys Asn Val Leu Lys Glu His Ala Asp Asp Asp					
	515		520		525
Pro Ser Leu Ala Ile Thr Gly Val Pro Val Val Thr Trp Pro Lys Lys					
	530		535		540
Thr Pro Lys Asn Arg Ala Val Gly Arg Pro Lys Gly Lys Leu Gly Pro					
545		550		555	560

Ala Ser Ala Val Lys Leu Ala Ala Asn Arg Thr Thr Ala Gly Ala Arg
565 570 575
Arg Arg Arg Thr Arg Cys Arg Lys Cys Glu Ala Cys Leu Arg Thr Glu
580 585 590
Cys Gly Glu Cys His Phe Cys Lys Asp Met Lys Lys Phe Gly Gly Pro
595 600 605
Gly Arg Met Lys Gln Ser Cys Ile Met Arg Gln Cys Ile Ala Pro Val
610 615 620
Leu Pro His Thr Ala Val Cys Leu Val Cys Gly Glu Ala Gly Lys Glu
625 630 635 640
Asp Thr Val Glu Glu Glu Glu Gly Lys Phe Asn Leu Met Leu Met Glu
645 650 655
Cys Ser Ile Cys Asn Glu Ile Ile His Pro Gly Cys Leu Lys Ile Lys
660 665 670
Glu Ser Glu Gly Val Val Asn Asp Glu Leu Pro Asn Cys Trp Glu Cys
675 680 685
Pro Lys Cys Asn His Ala Gly Lys Thr Gly Lys Gln Lys Arg Gly Pro
690 695 700
Gly Phe Lys Tyr Ala Ser Asn Leu Pro Gly Ser Leu Leu Lys Glu Gln
705 710 715 720
Lys Met Asn Arg Asp Asn Lys Glu Gly Gln Glu Pro Ala Lys Arg Arg
725 730 735
Ser Glu Cys Glu Glu Ala Pro Arg Arg Arg Ser Asp Glu His Ser Lys
740 745 750
Lys Val Pro Pro Asp Gly Leu Leu Arg Arg Lys Ser Asp Asp Val His
755 760 765
Leu Arg Lys Lys Arg Lys Tyr Glu Lys Pro Gln Glu Leu Ser Gly Arg
770 775 780
Lys Arg Leu Lys Pro Gly Lys Glu Asp Lys Leu Phe Arg Lys Lys Arg

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Arg Trp Cys Cys Asp Lys Arg Leu Trp Thr Arg Ile Asp Leu Asn His			
1025	1030	1035	1040
Cys Lys Ser Ile Thr Pro Leu Met Leu Ser Gly Ile Ile Arg Arg Gln			
1045	1050	1055	
Pro Val Ser Leu Asp Leu Ser Trp Thr Asn Ile Ser Lys Lys Gln Leu			
1060	1065	1070	
Ser Trp Leu Ile Asn Arg Leu Pro Gly Leu Arg Asp Leu Val Leu Ser			
1075	1080	1085	
Gly Cys Ser Trp Ile Ala Val Ser Ala Leu Cys Ser Ser Ser Cys Pro			
1090	1095	1100	
Leu Leu Arg Thr Leu Asp Val Gln Trp Val Glu Gly Leu Lys Asp Ala			
1105	1110	1115	1120
Gln Met Arg Asp Leu Leu Ser Pro Pro Thr Asp Asn Arg Pro Gly Gln			
1125	1130	1135	
Met Asp Asn Arg Ser Lys Leu Arg Asn Ile Val Glu Leu Arg Leu Ala			
1140	1145	1150	
Gly Leu Asp Ile Thr Asp Ala Ser Leu Arg Leu Ile Ile Arg His Met			
1155	1160	1165	
Pro Leu Leu Ser Lys Leu His Leu Ser Tyr Cys Asn His Val Thr Asp			
1170	1175	1180	
Gln Ser Ile Asn Leu Leu Thr Ala Val Gly Thr Thr Thr Arg Asp Ser			
1185	1190	1195	1200
Leu Thr Glu Ile Asn Leu Ser Asp Cys Asn Lys Val Thr Asp Gln Cys			
1205	1210	1215	
Leu Ser Phe Phe Lys Arg Cys Gly Asn Ile Cys His Ile Asp Leu Arg			
1220	1225	1230	
Tyr Cys Lys Gln Val Thr Lys Glu Gly Cys Glu Gln Phe Ile Ala Glu			
1235	1240	1245	
Met Ser Ser Phe Gln Gly Arg Ser Cys Ser Thr Thr Arg Leu Gly Asp			

1250 1255 1260
Glu
1265

<210> 2643

<211> 1393

<212> PRT

<213> Homo sapiens

<400> 2643

Met Gly Cys Thr Thr Ser Val Ile Leu Phe Lys Gly Ile Arg Thr Val
1 5 10 15
Phe Glu Arg Asn Cys Ala Tyr Met Cys Lys Gln Gln Gly Glu Asn Asn
20 25 30
Ala Leu Glu Tyr Thr Ala Tyr Asn Trp Thr Lys Glu Asp Ser Glu Leu
35 40 45
Leu Ile Ser Ser Trp Leu Ala Lys Pro Lys Leu Ile Glu Pro Leu Asp
50 55 60
Tyr Glu Asn Val Ile Val Gln Lys Lys Thr Gln Ile Leu Asn Asp Cys
65 70 75 80
Leu Arg Glu Met Leu Leu Phe Pro Tyr Asp Asp Phe Gln Thr Ala Ile
85 90 95
Leu Arg Arg Gln Gly Arg Tyr Ile Cys Ser Thr Val Pro Ala Lys Ala
100 105 110
Glu Glu Glu Ala Gln Ser Leu Phe Val Thr Glu Cys Ile Lys Thr Tyr
115 120 125
Asn Ser Asp Trp His Leu Val Asn Tyr Lys Tyr Glu Asp Tyr Ser Gly
130 135 140

Glu Phe Arg Gln Leu Pro Asn Lys Val Val Lys Leu Asp Lys Leu Pro
145 150 155 160
Val His Val Tyr Glu Val Asp Glu Glu Val Asp Lys Asp Glu Asp Ala
165 170 175
Ala Ser Leu Gly Ser Gln Lys Gly Gly Ile Thr Lys His Gly Trp Leu
180 185 190
Tyr Lys Gly Asn Met Asn Ser Ala Ile Ser Val Thr Met Arg Ser Phe
195 200 205
Lys Arg Arg Phe Phe His Leu Ile Gln Leu Gly Asp Gly Ser Tyr Asn
210 215 220
Leu Asn Phe Tyr Lys Asp Glu Lys Ile Ser Lys Glu Pro Lys Gly Ser
225 230 235 240
Ile Phe Leu Asp Ser Cys Met Gly Val Val Gln Asn Asn Lys Val Arg
245 250 255
Arg Phe Ala Phe Glu Leu Lys Met Gln Asp Lys Ser Ser Tyr Leu Leu
260 265 270
Ala Ala Asp Ser Glu Val Glu Met Glu Glu Trp Ile Thr Ile Leu Asn
275 280 285
Lys Ile Leu Gln Leu Asn Phe Glu Ala Ala Met Gln Glu Lys Arg Asn
290 295 300
Gly Asp Ser His Glu Asp Asp Glu Gln Ser Lys Leu Glu Gly Ser Gly
305 310 315 320
Ser Gly Leu Asp Ser Tyr Leu Pro Glu Leu Ala Lys Ser Ala Arg Glu
325 330 335
Ala Glu Ile Lys Leu Lys Ser Glu Ser Arg Val Lys Leu Phe Tyr Leu
340 345 350
Asp Pro Asp Ala Gln Lys Leu Asp Phe Ser Ser Ala Glu Pro Glu Val
355 360 365
Lys Ser Phe Glu Glu Lys Phe Gly Lys Arg Ile Leu Val Lys Cys Asn

370 375 380
Asp Leu Ser Phe Asn Leu Gln Cys Cys Val Ala Glu Asn Glu Glu Gly
385 390 395 400
Pro Thr Thr Asn Val Glu Pro Phe Phe Val Thr Leu Ser Leu Phe Asp
405 410 415
Ile Lys Tyr Asn Arg Lys Ile Ser Ala Asp Phe His Val Asp Leu Asn
420 425 430
His Phe Ser Val Arg Gln Met Leu Ala Thr Thr Ser Pro Ala Leu Met
435 440 445
Asn Gly Ser Gly Gln Ser Pro Ser Val Leu Lys Gly Ile Leu His Glu
450 455 460
Ala Ala Met Gln Tyr Pro Lys Gln Gly Ile Phe Ser Val Thr Cys Pro
465 470 475 480
His Pro Asp Ile Phe Leu Val Ala Arg Ile Glu Lys Val Leu Gln Gly
485 490 495
Ser Ile Thr His Cys Ala Glu Pro Tyr Met Lys Ser Ser Asp Ser Ser
500 505 510
Lys Val Ala Gln Lys Val Leu Lys Asn Ala Lys Gln Ala Cys Gln Arg
515 520 525
Leu Gly Gln Tyr Arg Met Pro Phe Ala Trp Ala Ala Arg Thr Leu Phe
530 535 540
Lys Asp Ala Ser Gly Asn Leu Asp Lys Asn Ala Arg Phe Ser Ala Ile
545 550 555 560
Tyr Arg Gln Asp Ser Asn Lys Leu Ser Asn Asp Asp Met Leu Lys Leu
565 570 575
Leu Ala Asp Phe Arg Lys Pro Glu Lys Met Ala Lys Leu Pro Val Ile
580 585 590
Leu Gly Asn Leu Asp Ile Thr Ile Asp Asn Val Ser Ser Asp Phe Pro
595 600 605

Asn Tyr Val Asn Ser Ser Tyr Ile Pro Thr Lys Gln Phe Glu Thr Cys
610 615 620
Ser Lys Thr Pro Ile Thr Phe Glu Val Glu Glu Phe Val Pro Cys Ile
625 630 635 640
Pro Lys His Thr Gln Pro Tyr Thr Ile Tyr Thr Asn His Leu Tyr Val
645 650 655
Tyr Pro Lys Tyr Leu Lys Tyr Asp Ser Gln Lys Ser Phe Ala Lys Ala
660 665 670
Arg Asn Ile Ala Ile Cys Ile Glu Phe Lys Asp Ser Asp Glu Glu Asp
675 680 685
Ser Gln Pro Leu Lys Cys Ile Tyr Gly Arg Pro Gly Gly Pro Val Phe
690 695 700
Thr Arg Ser Ala Phe Ala Ala Val Leu His His His Gln Asn Pro Glu
705 710 715 720
Phe Tyr Asp Glu Ile Lys Ile Glu Leu Pro Thr Gln Leu His Glu Lys
725 730 735
His His Leu Leu Leu Thr Phe Phe His Val Ser Cys Asp Asn Ser Ser
740 745 750
Lys Gly Ser Thr Lys Lys Arg Asp Val Val Glu Thr Gln Val Gly Tyr
755 760 765
Ser Trp Leu Pro Leu Leu Lys Asp Gly Arg Val Val Thr Ser Glu Gln
770 775 780
His Ile Pro Val Ser Ala Asn Leu Pro Ser Gly Tyr Leu Gly Tyr Gln
785 790 795 800
Glu Leu Gly Met Gly Arg His Tyr Gly Pro Glu Ile Lys Trp Val Asp
805 810 815
Gly Gly Lys Pro Leu Leu Lys Ile Ser Thr His Leu Val Ser Thr Val
820 825 830
Tyr Thr Gln Asp Gln His Leu His Asn Phe Phe Gln Tyr Cys Gln Lys

835 840 845
Thr Glu Ser Gly Ala Gln Ala Leu Gly Asn Glu Leu Val Lys Tyr Leu
850 855 860
Lys Ser Leu His Ala Met Glu Gly His Val Met Ile Ala Phe Leu Pro
865 870 875 880
Thr Ile Leu Asn Gln Leu Phe Arg Val Leu Thr Arg Ala Thr Gln Glu
885 890 895
Glu Val Ala Val Asn Val Thr Arg Val Ile Ile His Val Val Ala Gln
900 905 910
Cys His Glu Glu Gly Leu Glu Ser His Leu Arg Ser Tyr Val Lys Tyr
915 920 925
Ala Tyr Lys Ala Glu Pro Tyr Val Ala Ser Glu Tyr Lys Thr Val His
930 935 940
Glu Glu Leu Thr Lys Ser Met Thr Thr Ile Leu Lys Pro Ser Ala Asp
945 950 955 960
Phe Leu Thr Ser Asn Lys Leu Leu Lys Tyr Ser Trp Phe Phe Phe Asp
965 970 975
Val Leu Ile Lys Ser Met Ala Gln His Leu Ile Glu Asn Ser Lys Val
980 985 990
Lys Leu Leu Arg Asn Gln Arg Phe Pro Ala Ser Tyr His His Ala Val
995 1000 1005
Glu Thr Val Val Asn Met Leu Met Pro His Ile Thr Gln Lys Phe Arg
1010 1015 1020
Asp Asn Pro Glu Ala Ser Lys Asn Ala Asn His Ser Leu Ala Val Phe
1025 1030 1035 1040
Ile Lys Arg Cys Phe Thr Phe Met Asp Arg Gly Phe Val Phe Lys Gln
1045 1050 1055
Ile Asn Asn Tyr Ile Ser Cys Phe Ala Pro Gly Asp Pro Lys Thr Leu
1060 1065 1070

Phe Glu Tyr Lys Phe Glu Phe Leu Arg Val Val Cys Asn His Glu His
1075 1080 1085

Tyr Ile Pro Leu Asn Leu Pro Met Pro Phe Gly Lys Gly Arg Ile Gln
1090 1095 1100

Arg Tyr Gln Asp Leu Gln Leu Asp Tyr Ser Leu Thr Asp Glu Phe Cys
1105 1110 1115 1120

Arg Asn His Phe Leu Val Gly Leu Leu Leu Arg Glu Val Gly Thr Ala
1125 1130 1135

Leu Gln Glu Phe Arg Glu Val Arg Leu Ile Ala Ile Ser Val Leu Lys
1140 1145 1150

Asn Leu Leu Ile Lys His Ser Phe Asp Asp Arg Tyr Ala Ser Arg Ser
1155 1160 1165

His Gln Ala Arg Ile Ala Thr Leu Tyr Leu Pro Leu Phe Gly Leu Leu
1170 1175 1180

Ile Glu Asn Val Gln Arg Ile Asn Val Arg Asp Val Ser Pro Phe Pro
1185 1190 1195 1200

Val Asn Ala Gly Met Thr Val Lys Asp Glu Ser Leu Ala Leu Pro Ala
1205 1210 1215

Val Asn Pro Leu Val Thr Pro Gln Lys Gly Ser Thr Leu Asp Asn Ser
1220 1225 1230

Leu His Lys Asp Leu Leu Gly Ala Ile Ser Gly Ile Ala Ser Pro Tyr
1235 1240 1245

Thr Thr Ser Thr Pro Asn Ile Asn Ser Val Arg Asn Ala Asp Ser Arg
1250 1255 1260

Gly Ser Leu Ile Ser Thr Asp Ser Gly Asn Ser Leu Pro Glu Arg Asn
1265 1270 1275 1280

Ser Glu Lys Ser Asn Ser Leu Asp Lys His Gln Gln Ser Ser Thr Leu
1285 1290 1295

Gly Asn Ser Val Val Arg Cys Asp Lys Leu Asp Gln Ser Glu Ile Lys

Ser Asp Ala Val Leu Glu Leu Phe Lys Leu Thr Ile Gly Leu Gly Asp
65 70 75 80
Leu Asn Ile Gln Gln Asn Ser Lys Tyr Pro Ile Leu Phe Leu Phe Leu
85 90 95
Leu Ile Thr Tyr Val Ile Leu Thr Phe Val Leu Leu Leu Asn Met Leu
100 105 110
Ile Ala Leu Met Gly Glu Thr Val Glu Asn Val Ser Lys Glu Ser Glu
115 120 125
Arg Ile Trp Arg Leu Gln Arg Ala Arg Thr Ile Leu Glu Phe Glu Lys
130 135 140
Met Leu Pro Glu Trp Leu Arg Ser Arg Phe Arg Met Gly Glu Leu Cys
145 150 155 160
Lys Val Ala Glu Asp Asp Phe Arg Leu Cys Leu Arg Ile Asn Glu Val
165 170 175
Lys Trp Thr Glu Trp Lys Thr His Val Ser Phe Leu Asn Glu Asp Pro
180 185 190
Gly Pro Val Arg Arg Thr Asp Phe Asn Lys Ile Gln Asp Ser Ser Arg
195 200 205
Asn Asn Ser Lys Thr Thr Leu Asn Ala Phe Glu Glu Val Glu Glu Phe
210 215 220
Pro Glu Thr Ser Val
225

<210> 2645

<211> 178

<212> PRT

<213> Homo sapiens

<400> 2645

Met Gly Trp Gly Asn Pro Ile Ile Ala Val Phe Arg Thr Pro Phe Ala
 1 5 10 15
 Pro Trp Leu Gln Phe His Trp Ser Ala Pro Phe Ser Ala Trp Leu Gly
 20 25 30
 Thr Val Leu Thr His Leu His Ser Ser Gln Gln Arg Ser Gly Thr Thr
 35 40 45
 Val Cys Pro Pro Cys Asp Asn Glu Leu Lys Ser Glu Ala Ile Ile Glu
 50 55 60
 His Leu Cys Ala Ser Glu Phe Ala Leu Arg Met Lys Ile Lys Glu Val
 65 70 75 80
 Lys Lys Glu Asn Gly Asp Lys Lys Ile Val Pro Lys Lys Lys Lys Pro
 85 90 95
 Leu Lys Leu Gly Pro Ile Lys Lys Lys Asp Leu Lys Lys Leu Val Leu
 100 105 110
 Tyr Leu Lys Asn Gly Ala Asp Cys Pro Cys His Gln Leu Asp Asn Leu
 115 120 125
 Ser His His Phe Leu Ile Met Gly Arg Lys Val Lys Ser Gln Tyr Leu
 130 135 140
 Leu Thr Ala Ile His Lys Trp Asp Lys Lys Asn Lys Glu Phe Lys Asn
 145 150 155 160
 Phe Met Lys Lys Met Lys Asn His Glu Cys Pro Thr Phe Gln Ser Val
 165 170 175
 Phe Lys

<210> 2646

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2646

Met Lys Cys His Met Gln Ile Gly Leu Ser Leu Ile Ser Leu Phe Arg
1 5 10 15
Glu Trp Val Arg Thr Ser Asn Ser Ser Ser Cys Arg Trp Phe Gln Asn
20 25 30
Gly Gly Pro Glu Gly Tyr Cys Asn Trp Ala Leu Thr Phe Ile Lys Asn
35 40 45
Ser Lys Trp Ser Pro Val Gly Phe Tyr Glu Cys Phe Thr Glu Asn Gly
50 55 60
Leu Arg Ser Trp Lys Ile Val Tyr Ser Asn Phe Ser Leu Ile Ser Thr
65 70 75 80
Leu Val Phe Val Met Val Trp Gly Trp Gly Val Ser Ile Ile Ala Ile
85 90 95
Gln Leu Ala Val Leu Asn Ile Ser
100

<210> 2647

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2647

Met Pro Asp Leu Pro Arg Ser Trp Gln Trp Arg Val Arg Gly Ser Trp
1 5 10 15
Gln Gln Trp Arg Tyr Val Cys Cys Leu Arg Arg Asp Lys Lys Leu Leu

20 25 30
 Thr Ser Leu Val Pro Ile Pro Thr Leu Ser Val Ala Ser Ser Gln Val
 35 40 45
 Leu Phe Arg Ala Ser Gly Gly Lys Pro Ile Ala Val Leu Cys Leu Thr
 50 55 60
 Val Glu Leu Gln Pro His Val Val Asp Gln Val Phe Arg Phe Tyr His
 65 70 75 80
 Pro Glu Leu Ser Phe Leu Lys Lys Ala Ile Arg Leu Pro Pro Trp His
 85 90 95
 Thr Phe Pro Gly Ala Pro Val Gly Met Leu Gly Glu Asp Pro Pro Val
 100 105 110
 His Val Arg Cys Ser Asp Pro Asn Val Ile Cys Glu Thr Gln Asn Val
 115 120 125
 Gly Pro Gly Glu Pro Arg Asp Ile Phe Leu Lys Val Ala Ser Gly Pro
 130 135 140
 Ser Pro Glu Ile Lys Asp Phe Phe Val Ile Ile Tyr Ser
 145 150 155

<210> 2648

<211> 185

<212> PRT

<213> Homo sapiens

<400> 2648

Met His Met His Ala His Thr His His Arg Leu Ser Pro Ser Thr Leu
 1 5 10 15
 Cys Thr Gly Thr His Thr His Pro Cys Thr His Thr His Pro Cys Thr
 20 25 30

His Thr His Ala Arg Ala Arg Val His Thr His Thr Ser Gln Val Thr
 35 40 45
 Ser Phe Asn Ile Val Tyr Arg His Thr His Ile His Ala Leu Thr His
 50 55 60
 Thr Cys Thr His Val Cys Thr His Thr His His Arg Leu Pro Pro Ser
 65 70 75 80
 Thr Leu Cys Thr Gly Ala His Thr His Pro Cys Thr His Thr His Met
 85 90 95
 His Ala Arg Ala Arg Ala His Thr His Ile Thr Gly Tyr Leu Leu Gln
 100 105 110
 His Cys Val Gln Ala His Thr His Ile His Ala Leu Thr His Thr His
 115 120 125
 Ala His Thr Arg Ala Arg Ala Cys Ala His Thr His Thr His Ile Thr
 130 135 140
 Gly Tyr Leu Leu Gln His Cys Val Glu His Arg Pro Ala Ser Phe Ser
 145 150 155 160
 Cys Lys Glu Pro Glu Ser Glu His Phe Arg Leu Cys Gly Pro Asp Asn
 165 170 175
 Leu Cys Cys Lys Asp Ser Ala Leu Pro
 180 185

<210> 2649

<211> 432

<212> PRT

<213> Homo sapiens

<400> 2649

Met Pro Ala Gly Arg Ala Ala Arg Thr Cys Ala Leu Leu Ala Leu Cys

1 5 10 15
Leu Leu Gly Ala Gly Ala Gln Asp Phe Gly Pro Thr Arg Phe Ile Cys
20 25 30
Thr Ser Val Pro Val Asp Ala Asp Met Cys Ala Ala Ser Val Ala Ala
35 40 45
Gly Gly Ala Glu Glu Leu Arg Ser Ser Val Leu Gln Leu Arg Glu Thr
50 55 60
Val Leu Gln Gln Lys Glu Thr Ile Leu Ser Gln Lys Glu Thr Ile Arg
65 70 75 80
Glu Leu Thr Ala Lys Leu Gly Arg Cys Glu Ser Gln Ser Thr Leu Asp
85 90 95
Pro Gly Ala Gly Glu Ala Arg Ala Gly Gly Gly Arg Lys Gln Pro Gly
100 105 110
Ser Gly Lys Asn Thr Met Gly Asp Leu Ser Arg Thr Pro Ala Ala Glu
115 120 125
Thr Leu Ser Gln Leu Gly Gln Thr Leu Gln Ser Leu Lys Thr Arg Leu
130 135 140
Glu Asn Leu Glu Gln Tyr Ser Arg Leu Asn Ser Ser Ser Gln Thr Asn
145 150 155 160
Ser Leu Lys Asp Leu Leu Gln Ser Lys Ile Asp Glu Leu Glu Arg Gln
165 170 175
Val Leu Ser Arg Val Asn Thr Leu Glu Glu Gly Lys Gly Gly Pro Arg
180 185 190
Asn Asp Thr Glu Glu Arg Val Lys Ile Glu Thr Ala Leu Thr Ser Leu
195 200 205
His Gln Arg Ile Ser Glu Leu Glu Lys Gly Gln Lys Asp Asn Arg Pro
210 215 220
Gly Asp Lys Phe Gln Leu Thr Phe Pro Leu Arg Thr Asn Tyr Met Tyr
225 230 235 240

Ala Lys Val Lys Lys Ser Leu Pro Glu Met Tyr Ala Phe Thr Val Cys
245 250 255
Met Trp Leu Lys Ser Ser Ala Thr Pro Gly Val Gly Thr Pro Phe Ser
260 265 270
Tyr Ala Val Pro Gly Gln Ala Asn Glu Leu Val Leu Ile Glu Trp Gly
275 280 285
Asn Asn Pro Met Glu Ile Leu Ile Asn Asp Lys Val Ala Lys Leu Pro
290 295 300
Phe Val Ile Asn Asp Gly Lys Trp His His Ile Cys Val Thr Trp Thr
305 310 315 320
Thr Arg Asp Gly Val Trp Glu Ala Tyr Gln Asp Gly Thr Gln Gly Gly
325 330 335
Ser Gly Glu Asn Leu Ala Pro Tyr His Pro Ile Lys Pro Gln Gly Val
340 345 350
Leu Val Leu Gly Gln Glu Gln Asp Thr Leu Gly Gly Gly Phe Asp Ala
355 360 365
Thr Gln Ala Phe Val Gly Glu Leu Ala His Phe Asn Ile Trp Asp Arg
370 375 380
Lys Leu Thr Pro Gly Glu Val Tyr Asn Leu Ala Thr Cys Ser Thr Lys
385 390 395 400
Ala Leu Ser Gly Asn Val Ile Ala Trp Ala Glu Ser His Ile Glu Ile
405 410 415
Tyr Gly Gly Ala Thr Lys Trp Thr Phe Glu Ala Cys Arg Gln Ile Asn
420 425 430

<210> 2650

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2650

Met	Gly	Trp	Gln	Gln	Pro	Gly	Leu	Gly	Val	Gly	Gln	Arg	Leu	Leu	Ser
1				5					10					15	
Leu	Gly	Glu	Ala	Gln	Glu	Met	Gly	Leu	Gly	Leu	Val	Lys	Glu	Thr	Ala
			20					25					30		
Pro	Phe	Pro	Cys	Thr	Asn	Gly	Ala	Gly	Ala	Ile	Val	Leu	Glu	Leu	Val
			35					40					45		
Val	Leu	Gly	Ala	Gln	Leu	Val	Glu	Gln	Trp	Pro	Gln	Gly	Leu	Ser	Trp
		50				55						60			
Val	Leu	Glu	Val	Arg	Ile	Arg	Ala	Arg	Arg	Leu	Tyr	Glu	Ala	His	Leu
	65				70					75				80	
Leu	Gly	Gly	Glu	Gly	Gly	Pro	Asp	Arg	Arg	His	Ser	Trp	Gly	Gln	Trp
				85					90					95	
Thr	Pro	Thr	Gly	Ser	Pro										
					100										

<210> 2651

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2651

Met	Ser	His	Arg	Ala	Leu	Pro	Lys	Ile	Lys	Lys	Lys	Ser	Tyr	Tyr	Phe
1				5					10					15	
Phe	Gly	Met	Glu	Ser	His	Ser	Val	Ala	Gln	Ala	Arg	Val	Gln	Trp	Arg
				20					25					30	

Asp Leu Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Gln Phe Ser
 35 40 45
 Cys Leu Ser Leu Leu Asn Ser Trp Asp Cys Trp Arg Leu Pro Pro Cys
 50 55 60
 Pro Asp Arg Phe Cys Val Phe Ser Gly Asp Gly Val Ser Pro Cys Trp
 65 70 75 80
 Ser Gly Trp Ser Arg Thr Pro Glu Leu Val Val Gln Leu Pro Arg Pro
 85 90 95
 Pro Lys Val Leu Gly Leu
 100

<210> 2652

<211> 423

<212> PRT

<213> Homo sapiens

<400> 2652

Met Asp Arg Lys Thr Leu Asp Trp Glu Ile Val Glu Leu Thr Asn Lys
 1 5 10 15
 Leu Leu Asp Ala Lys Asn Thr Ile Asn Lys Leu Glu Glu Leu Asn Glu
 20 25 30
 Arg Tyr Arg Leu Asp Cys Asn Leu Ala Val Gln Leu Leu Lys Cys Asn
 35 40 45
 Lys Ser His Phe Arg Asn His Lys Phe Ala Asp Leu Pro Cys Glu Leu
 50 55 60
 Gln Asp Met Val Arg Lys His Leu His Ser Gly Gln Glu Ala Ala Ser
 65 70 75 80
 Pro Gly Pro Ala Pro Ser Leu Ala Pro Gly Ala Val Val Pro Thr Ser

85 90 95
Val Ile Ala Arg Val Leu Glu Lys Pro Glu Ser Leu Leu Leu Asn Ser
100 105 110
Ala Gln Ser Gly Ser Ala Gly Arg Pro Leu Ala Glu Asp Val Phe Val
115 120 125
His Val Asp Met Ser Glu Gly Val Pro Gly Asp Pro Ala Ser Pro Pro
130 135 140
Ala Pro Gly Ser Pro Thr Pro Gln Pro Asn Gly Glu Cys His Ser Leu
145 150 155 160
Gly Thr Ala Arg Gly Ser Pro Glu Glu Glu Leu Pro Leu Pro Ala Phe
165 170 175
Glu Lys Leu Asn Pro Tyr Pro Thr Pro Ser Pro Pro His Pro Leu Tyr
180 185 190
Pro Gly Arg Arg Val Ile Glu Phe Ser Glu Asp Lys Val Arg Ile Pro
195 200 205
Arg Asn Ser Pro Leu Pro Asn Cys Thr Tyr Ala Thr Arg Gln Ala Ile
210 215 220
Ser Leu Ser Leu Val Glu Glu Gly Ser Glu Arg Ala Arg Pro Ser Pro
225 230 235 240
Val Pro Ser Thr Pro Ala Ser Ala Gln Ala Ser Pro His His Gln Pro
245 250 255
Ser Pro Ala Pro Leu Thr Leu Ser Ala Pro Ala Ser Ser Ala Ser Ser
260 265 270
Glu Glu Asp Leu Leu Val Ser Trp Gln Arg Ala Phe Val Asp Arg Thr
275 280 285
Pro Pro Pro Ala Ala Val Ala Gln Arg Thr Ala Phe Gly Arg Asp Ala
290 295 300
Leu Pro Glu Leu Gln Arg His Phe Ala His Ser Pro Ala Asp Arg Asp
305 310 315 320

Glu Val Val Gln Ala Pro Ser Ala Arg Pro Glu Glu Ser Glu Leu Leu
 325 330 335
 Leu Pro Thr Glu Pro Asp Ser Gly Phe Pro Arg Glu Glu Glu Glu Leu
 340 345 350
 Asn Leu Pro Ile Ser Pro Glu Glu Glu Arg Gln Ser Leu Leu Pro Ile
 355 360 365
 Asn Arg Gly Thr Glu Glu Gly Pro Gly Thr Ser His Thr Glu Gly Arg
 370 375 380
 Ala Trp Pro Leu Pro Ser Ser Ser Arg Pro Gln Arg Ser Pro Lys Arg
 385 390 395 400
 Met Gly Val His His Leu His Arg Lys Asp Ser Leu Thr Gln Ala Gln
 405 410 415
 Glu Gln Gly Asn Leu Leu Asn
 420

<210> 2653

<211> 286

<212> PRT

<213> Homo sapiens

<400> 2653

Met Ser Ala Thr Gln Glu Phe Gly Gly Gly Tyr Thr Phe Pro Arg Ala
 1 5 10 15
 Pro Arg Gly Ala Gly Ala Glu Ala Gly Trp Thr Pro Trp Ala Glu Val
 20 25 30
 Asp Gly Arg Gly Ser Val Arg Gly Val Val Gly Ala Gly Val Ala Gly
 35 40 45
 Gln Gly His Ala Arg Trp Arg Val Gly Gln Gly Lys Ser Cys Asp Arg

50	55	60
His Thr Asp Gly Lys Phe Ile Pro Ser Ala Ser Val Glu Arg Ile Ser		
65	70	75
Tyr Cys His Arg Asn Leu Thr Lys His Arg Thr Asn Ala Ser His Ala		
85	90	95
Phe Ile Gly His Arg Leu Cys Ala Trp Pro Thr Val Cys Val Leu Glu		
100	105	110
Pro Gly His Gly Ile Pro Asp Phe Asn Ser Glu Ala Ser Asn Lys Arg		
115	120	125
Arg Leu Asn Pro Gly Gly Cys His Val Ser Glu Val Gly Asn Leu Gln		
130	135	140
Pro Pro Ser His Ser Leu Gln Val Cys Ser Gly Gly Trp Gly Cys Val		
145	150	155
Pro Val Pro Ala Val Ser Pro Trp Val Ala Gly His Leu Leu Ser Gly		
165	170	175
Gly Lys Leu Met His Phe Cys Pro Ala Arg Thr Gly Val Ser Thr Cys		
180	185	190
Ser Ser Cys Pro Cys Lys Val Pro Gln Thr Gly Gly Phe Asn Asn Gly		
195	200	205
Lys Cys Pro Pro Ala Val Leu Gln Ala Asn Val Pro Asp Gly Gly Val		
210	215	220
Ser Arg Ala Gly Pro Ser Trp Gly Gln Glu Gly Gly Ser Ser Arg Pro		
225	230	235
Leu Ser Leu Ala Leu Gly Trp Pro Ser Ser Pro Cys Ala Phe Thr Ser		
245	250	255
Ser Ser Pro Val Ser Leu Tyr Leu His Pro His Phe Pro Phe Met Arg		
260	265	270
Thr Pro Ala Met Gly Pro Gly Leu Pro Ala Lys Asn Pro Val		
275	280	285

<210> 2654

<211> 564

<212> PRT

<213> Homo sapiens

<400> 2654

Met Pro Val Ser Glu Glu Val Pro Leu Thr Ala Phe Ala Leu Glu Leu

1 5 10 15

Glu His Ala Leu Ser Ala Ile Gly Pro Thr Leu Leu Leu Thr Ser Asp

20 25 30

Asn Ile Lys Arg Arg Leu Gly Ser Ala Ala Leu Asp Ser Val His Glu

35 40 45

Tyr Arg Leu Ser Ser Trp Leu Gly Gln Gln Glu Asp Thr His Arg Ile

50 55 60

Val Leu Tyr Gln Ala Asp Gly Thr Leu Thr Pro Trp Thr Gln Arg Cys

65 70 75 80

Val Arg Gln Ala Asp Cys Ile Leu Ile Val Gly Leu Gly Asp Gln Glu

85 90 95

Pro Thr Val Gly Glu Leu Glu Arg Met Leu Glu Ser Thr Ala Val Arg

100 105 110

Ala Gln Lys Gln Leu Ile Leu Leu His Arg Glu Glu Gly Pro Ala Pro

115 120 125

Ala Arg Thr Val Glu Trp Leu Asn Met Arg Ser Trp Cys Ser Gly His

130 135 140

Leu His Leu Cys Cys Pro Arg Arg Val Phe Ser Arg Arg Ser Leu Pro

145 150 155 160

Lys Leu Val Glu Met Tyr Lys His Val Phe Gln Arg Pro Pro Asp Arg

165 170 175
His Ser Asp Phe Ser Arg Leu Ala Arg Val Leu Thr Gly Asn Ala Ile
180 185 190
Ala Leu Val Leu Gly Gly Gly Gly Ala Arg Gly Cys Ala Gln Val Gly
195 200 205
Val Leu Lys Ala Leu Ala Glu Cys Gly Ile Pro Val Asp Met Val Gly
210 215 220
Gly Thr Ser Ile Gly Ala Phe Val Gly Ala Leu Tyr Ser Glu Glu Arg
225 230 235 240
Asn Tyr Ser Gln Met Arg Ile Arg Ala Lys Gln Trp Ala Glu Gly Met
245 250 255
Thr Ser Leu Met Lys Ala Ala Leu Asp Leu Thr Tyr Pro Ile Thr Ser
260 265 270
Met Phe Ser Gly Ala Gly Phe Asn Ser Ser Ile Phe Ser Val Phe Lys
275 280 285
Asp Gln Gln Ile Glu Asp Leu Trp Ile Pro Tyr Phe Ala Ile Thr Thr
290 295 300
Asp Ile Thr Ala Ser Ala Met Arg Val His Thr Asp Gly Ser Leu Trp
305 310 315 320
Arg Tyr Val Arg Ala Ser Met Ser Leu Ser Gly Tyr Met Pro Pro Leu
325 330 335
Cys Asp Pro Lys Asp Gly His Leu Leu Met Asp Gly Gly Tyr Ile Asn
340 345 350
Asn Leu Pro Ala Asp Val Ala Arg Ser Met Gly Ala Lys Val Val Ile
355 360 365
Ala Ile Asp Val Gly Ser Arg Asp Glu Thr Asp Leu Thr Asn Tyr Gly
370 375 380
Asp Ala Leu Ser Gly Trp Trp Leu Leu Trp Lys Arg Trp Asn Pro Leu
385 390 395 400

Ala Thr Lys Val Lys Leu Glu Val Val Lys Ser Ser Asp Tyr Cys Glu
405 410 415
Tyr Leu Arg Pro Pro Ile Asp Ser Tyr Ser Thr Leu Asp Phe Gly Lys
420 425 430
Phe Asn Glu Ile Cys Glu Val Gly Tyr Gln His Gly Arg Thr Val Phe
435 440 445
Asp Ile Trp Gly Arg Ser Gly Val Leu Glu Lys Met Leu Arg Asp Gln
450 455 460
Gln Gly Pro Ser Lys Lys Pro Ala Ser Ala Val Leu Thr Cys Pro Asn
465 470 475 480
Ala Ser Phe Thr Asp Leu Ala Glu Ile Val Ser Arg Ile Glu Pro Ala
485 490 495
Lys Pro Ala Met Val Asp Asp Glu Ser Asp Tyr Gln Thr Glu Tyr Glu
500 505 510
Glu Glu Leu Leu Asp Val Pro Arg Asp Ala Tyr Ala Asp Phe Gln Ser
515 520 525
Thr Ser Ala Gln Gln Gly Ser Asp Leu Glu Asp Glu Ser Ser Leu Arg
530 535 540
His Arg His Pro Ser Leu Ala Phe Pro Lys Leu Ser Glu Gly Ser Ser
545 550 555 560
Asp Gln Asp Gly

<210> 2655

<211> 137

<212> PRT

<213> Homo sapiens

<400> 2655

Met	Lys	Ser	Leu	Arg	Ala	Ser	Lys	Lys	Arg	Glu	Arg	Arg	Thr	Lys	Asp
1				5					10					15	
Gln	Asp	Leu	Glu	Ser	Leu	Gln	His	Leu	Gly	Ser	Asp	Glu	Lys	Asp	Ala
			20					25					30		
Ala	Lys	Glu	Gln	Lys	Glu	Gln	Leu	Val	Arg	Gln	Ala	Glu	Thr	Gln	Ala
		35					40					45			
His	Lys	Val	Ser	Arg	Lys	Gln	Arg	Lys	Lys	Met	Pro	Gly	Arg	Trp	Pro
	50					55				60					
Phe	Ile	Leu	Gln	Asn	Ser	Tyr	Gln	Val	Ala	Met	Ser	Ser	Lys	Lys	Pro
	65				70					75				80	
Cys	Leu	Thr	His	Ser	Pro	Pro	Ser	Pro	Pro	Gly	Phe	Ala	Arg	Asp	Ala
				85						90				95	
Phe	Cys	Ala	Pro	Val	Ala	Ser	Val	Glu	His	Val	Thr	Leu	Cys	Leu	Gly
		100						105					110		
Cys	Gln	Val	Val	Cys	Ser	Thr	Glu	Gly	Glu	Arg	Asn	Leu	Thr	Asn	Ser
		115					120					125			
Ser	Glu	Val	Asn	Gly	Ser	Ser	Arg	Leu							
	130						135								

<210> 2656

<211> 852

<212> PRT

<213> Homo sapiens

<400> 2656

Met	Ala	Ile	Glu	Ala	Gly	Leu	Gly	Asp	Leu	Pro	Leu	Leu	Pro	Phe	Ser
1				5					10					15	

Ser Pro Ser Ser Pro Trp Ser Ser Asp Pro Phe Ser Phe Leu Gln Ser
 20 25 30
 Val Cys His Thr Val Val Val Gln Gly Val Ser Ala Leu Leu Ala Phe
 35 40 45
 Pro Gln Ser Gln Gly Glu Met Met Glu Leu Asp Leu Val Ser Leu Val
 50 55 60
 Leu His Ile Pro Val Ile Ser Ile Val Arg His Glu Phe Pro Arg Glu
 65 70 75 80
 Ser Gln Asn Pro Leu His Leu Gln Leu Ser Leu Glu Asn Ser Leu Ser
 85 90 95
 Ser Asp Ala Asp Val Thr Val Ser Ile Leu Thr Met Asn Asn Trp Tyr
 100 105 110
 Asn Phe Ser Leu Leu Leu Cys Gln Glu Asp Trp Asn Ile Thr Asp Phe
 115 120 125
 Leu Leu Leu Thr Gln Asn Asn Ser Lys Phe His Leu Gly Ser Ile Ile
 130 135 140
 Asn Ile Thr Ala Asn Leu Pro Ser Thr Gln Asp Leu Leu Ser Phe Leu
 145 150 155 160
 Gln Ile Gln Leu Glu Ser Ile Lys Asn Ser Thr Pro Thr Val Val Met
 165 170 175
 Phe Gly Cys Asp Met Glu Ser Ile Arg Arg Ile Phe Glu Ile Thr Thr
 180 185 190
 Gln Phe Gly Val Met Pro Pro Glu Leu Arg Trp Val Leu Gly Asp Ser
 195 200 205
 Gln Asn Met Glu Glu Leu Arg Thr Glu Gly Leu Pro Leu Gly Leu Ile
 210 215 220
 Ala His Gly Lys Thr Thr Gln Ser Val Phe Glu His Tyr Val Gln Asp
 225 230 235 240
 Ala Met Glu Leu Val Ala Arg Ala Val Ala Thr Ala Thr Met Ile Gln

245 250 255
Pro Glu Leu Ala Leu Ile Pro Ser Thr Met Asn Cys Met Glu Val Glu
260 265 270
Thr Thr Asn Leu Thr Ser Gly Gln Tyr Leu Ser Arg Phe Leu Ala Asn
275 280 285
Thr Thr Phe Arg Gly Leu Ser Gly Ser Ile Arg Val Lys Gly Ser Thr
290 295 300
Ile Val Ser Ser Glu Asn Asn Phe Phe Ile Trp Asn Leu Gln His Asp
305 310 315 320
Pro Met Gly Lys Pro Met Trp Thr Arg Leu Gly Ser Trp Gln Gly Arg
325 330 335
Lys Ile Val Met Asp Tyr Gly Ile Trp Pro Glu Gln Ala Gln Arg His
340 345 350
Lys Thr His Phe Gln His Pro Ser Lys Leu His Leu Arg Val Val Thr
355 360 365
Leu Ile Glu His Pro Phe Val Phe Thr Arg Glu Val Asp Asp Glu Gly
370 375 380
Leu Cys Pro Ala Gly Gln Leu Cys Leu Asp Pro Met Thr Asn Asp Ser
385 390 395 400
Ser Thr Leu Asp Ser Leu Phe Ser Ser Leu His Ser Ser Asn Asp Thr
405 410 415
Val Pro Ile Lys Phe Lys Lys Cys Cys Tyr Gly Tyr Cys Ile Asp Leu
420 425 430
Leu Glu Lys Ile Ala Glu Asp Met Asn Phe Asp Phe Asp Leu Tyr Ile
435 440 445
Val Gly Asp Gly Lys Tyr Gly Ala Trp Lys Asn Gly His Trp Thr Gly
450 455 460
Leu Val Gly Asp Leu Leu Arg Gly Thr Ala His Met Ala Val Thr Ser
465 470 475 480

Phe Ser Ile Asn Ala Ala Arg Ser Gln Val Ile Asp Phe Thr Ser Pro
 485 490 495
 Phe Phe Ser Thr Ser Leu Gly Ile Leu Val Arg Thr Arg Asp Thr Ala
 500 505 510
 Ala Pro Ile Gly Ala Phe Met Trp Pro Leu His Trp Thr Met Trp Leu
 515 520 525
 Gly Ile Phe Val Ala Leu His Ile Thr Ala Val Phe Leu Thr Leu Tyr
 530 535 540
 Glu Trp Lys Ser Pro Phe Gly Leu Thr Pro Lys Gly Arg Asn Arg Ser
 545 550 555 560
 Lys Val Phe Ser Phe Ser Ser Ala Leu Asn Ile Cys Tyr Ala Leu Leu
 565 570 575
 Phe Gly Arg Thr Val Ala Ile Lys Pro Pro Lys Cys Trp Thr Gly Arg
 580 585 590
 Phe Leu Met Asn Leu Trp Ala Ile Phe Cys Met Phe Cys Leu Ser Thr
 595 600 605
 Tyr Thr Ala Asn Leu Ala Ala Val Met Val Gly Glu Lys Ile Tyr Glu
 610 615 620
 Glu Leu Ser Gly Ile His Asp Pro Lys Leu His His Pro Ser Gln Gly
 625 630 635 640
 Phe Arg Phe Gly Thr Val Arg Glu Ser Ser Ala Glu Asp Tyr Val Arg
 645 650 655
 Gln Ser Phe Pro Glu Met His Glu Tyr Met Arg Arg Tyr Asn Val Pro
 660 665 670
 Ala Thr Pro Asp Gly Val Glu Tyr Leu Lys Asn Asn Pro Glu Lys Leu
 675 680 685
 Asp Ala Phe Ile Met Asp Lys Ala Leu Leu Asp Tyr Glu Val Ser Ile
 690 695 700
 Asp Ala Asp Cys Lys Leu Leu Thr Val Gly Lys Pro Phe Ala Ile Glu

705 710 715 720
 Gly Tyr Gly Ile Gly Leu Pro Pro Asn Ser Pro Leu Thr Ala Asn Ile
 725 730 735
 Ser Glu Leu Ile Ser Gln Tyr Lys Ser His Gly Phe Met Asp Met Leu
 740 745 750
 His Asp Lys Trp Tyr Arg Val Val Pro Cys Gly Lys Arg Ser Phe Ala
 755 760 765
 Val Thr Glu Thr Leu Gln Met Gly Ile Lys His Phe Ser Gly Leu Phe
 770 775 780
 Val Leu Leu Cys Ile Gly Phe Gly Leu Ser Ile Leu Thr Thr Ile Gly
 785 790 795 800
 Glu His Ile Val Tyr Arg Leu Leu Leu Pro Arg Ile Lys Asn Lys Ser
 805 810 815
 Lys Leu Gln Tyr Trp Leu His Thr Ser Gln Arg Leu His Arg Ala Ile
 820 825 830
 Asn Thr Ser Phe Ile Glu Glu Lys Gln Gln His Phe Lys Thr Lys Arg
 835 840 845
 Val Glu Lys Arg
 850

<210> 2657

<211> 422

<212> PRT

<213> Homo sapiens

<400> 2657

Met Val Met Val Leu Ser Glu Ser Leu Ser Thr Arg Gly Ala Asp Ser
 1 5 10 15

Ile Ala Cys Gly Thr Phe Ser Arg Glu Leu His Thr Pro Lys Lys Met
 20 25 30
 Ser Gln Gly Pro Thr Leu Phe Ser Cys Gly Ile Met Glu Asn Asp Arg
 35 40 45
 Trp Arg Asp Leu Asp Arg Lys Cys Pro Leu Gln Ile Asp Gln Pro Ser
 50 55 60
 Thr Ser Ile Trp Glu Cys Leu Pro Glu Lys Asp Ser Ser Leu Trp His
 65 70 75 80
 Arg Glu Ala Val Thr Ala Cys Ala Val Thr Ser Leu Ile Lys Asp Leu
 85 90 95
 Ser Ile Ser Asp His Asn Gly Asn Pro Ser Ala Pro Pro Ser Lys Arg
 100 105 110
 Gln Cys Arg Ser Leu Ser Phe Ser Asp Glu Met Ser Ser Cys Arg Thr
 115 120 125
 Ser Trp Arg Pro Leu Gly Ser Lys Val Trp Thr Pro Val Glu Lys Arg
 130 135 140
 Arg Cys Tyr Ser Gly Gly Ser Val Gln Arg Tyr Ser Asn Gly Phe Ser
 145 150 155 160
 Thr Met Gln Arg Ser Ser Ser Phe Ser Leu Pro Ser Arg Ala Asn Val
 165 170 175
 Leu Ser Ser Pro Cys Asp Gln Ala Gly Leu His His Arg Phe Gly Gly
 180 185 190
 Gln Pro Cys Gln Gly Val Pro Gly Ser Ala Pro Cys Gly Gln Ala Gly
 195 200 205
 Asp Thr Trp Ser Pro Asp Leu His Pro Val Gly Gly Gly Arg Leu Asp
 210 215 220
 Leu Gln Arg Ser Leu Ser Cys Ser His Glu Gln Phe Ser Phe Val Glu
 225 230 235 240
 Tyr Cys Pro Pro Ser Ala Asn Ser Thr Pro Ala Ser Thr Pro Glu Leu

	245		250		255
Ala Arg Arg Ser Ser Gly Leu Ser Arg Ser Arg Ser Gln Pro Cys Val					
	260		265		270
Leu Asn Asp Lys Lys Val Gly Val Lys Arg Arg Arg Pro Glu Glu Val					
	275		280		285
Gln Glu Gln Arg Pro Ser Leu Asp Leu Ala Lys Met Ala Gln Asn Cys					
	290		295		300
Gln Thr Phe Ser Ser Leu Ser Cys Leu Ser Ala Gly Thr Glu Asp Cys					
305		310		315	320
Gly Pro Gln Ser Pro Phe Ala Arg His Val Ser Asn Thr Arg Ala Trp					
	325		330		335
Thr Ala Leu Leu Ser Ala Ser Gly Pro Gly Gly Arg Thr Pro Ala Gly					
	340		345		350
Thr Pro Val Pro Glu Pro Leu Pro Pro Ser Phe Asp Asp His Leu Ala					
	355		360		365
Cys Gln Glu Asp Leu Ser Cys Glu Glu Ser Asp Ser Cys Ala Leu Asp					
	370		375		380
Glu Asp Cys Gly Arg Arg Ala Glu Pro Ala Ala Ala Trp Arg Asp Arg					
385		390		395	400
Gly Ala Pro Gly Asn Ser Leu Cys Ser Leu Asp Gly Glu Leu Asp Ile					
	405		410		415
Glu Gln Ile Glu Lys Asn					
	420				

<210> 2658

<211> 326

<212> PRT

<213> Homo sapiens

<400> 2658

Met Asn Asn Ser Pro Asn Phe Glu Glu Lys Lys Lys Phe Leu Thr Ile
 1 5 10 15
 Phe Asn Leu Thr His Ile Ser Ala Glu Lys Arg Lys Glu Pro Ala Thr
 20 25 30
 Gln Gln Ala Ser Leu Asp Val Glu Lys Pro Val Gly Val Ala Ala Ser
 35 40 45
 Leu Ser Asp Ile Pro Lys Ala Ala Glu Pro Gly Lys Leu Glu Gln Val
 50 55 60
 Arg Pro Gln Glu Leu Ser Arg Val Gln Glu Leu Ala Pro Ala Ser Gly
 65 70 75 80
 Glu Lys Ala Arg Leu Ser Glu Ala Pro Gly Gly Lys Lys Ser Leu Ser
 85 90 95
 Met Leu His Tyr Ile Arg Gly Ala Ala Pro Lys Asp Ile Pro Val Pro
 100 105 110
 Leu Ser His Ser Thr Asn Gly Lys Ser Lys Pro Trp Glu Pro Phe Val
 115 120 125
 Ala Glu Glu Phe Ala His Gln Phe His Glu Ser Val Leu Gln Ser Thr
 130 135 140
 Gln Lys Ala Leu Gln Lys His Lys Gly Ser Val Ala Val Leu Ser Ala
 145 150 155 160
 Glu Gln Asn His Lys Val Asp Thr Ser Val His Tyr Asn Ile Pro Glu
 165 170 175
 Leu Gln Ser Ser Ser Arg Ala Pro Pro Pro Gln His Asn Gly Gln Gln
 180 185 190
 Glu Pro Pro Thr Ala Arg Lys Gly Pro Pro Thr Gln Glu Leu Asp Arg
 195 200 205
 Asp Ser Glu Glu Glu Glu Glu Glu Asp Asp Glu Asp Gly Glu Asp Glu

210	215	220
Glu Glu Val Pro Lys Arg Lys Trp Gln Gly Ile Glu Ala Val Phe Glu		
225	230	235
Ala Tyr Gln Glu His Ile Glu Glu Gln Asn Leu Glu Arg Gln Val Leu		
245	250	255
Gln Thr Gln Cys Arg Arg Leu Glu Ala Arg His Tyr Ser Leu Ser Leu		
260	265	270
Thr Ala Glu Gln Leu Ser His Ser Val Ala Glu Leu Arg Ser Gln Lys		
275	280	285
Gln Lys Met Val Ser Glu Arg Glu Arg Leu Gln Ala Glu Leu Asp His		
290	295	300
Leu Arg Lys Cys Leu Ala Leu Pro Ala Met His Trp Pro Arg Gly Tyr		
305	310	315
Leu Lys Gly Tyr Pro Arg		
325		

<210> 2659

<211> 290

<212> PRT

<213> Homo sapiens

<400> 2659

Met Ala Leu Leu Phe Glu His Arg Tyr Ser Val Asp Leu Leu Pro Phe
1 5 10 15
Val Gln Lys Ala Pro Lys Asp Ser Glu Ala Glu Ser Lys Tyr Asp Pro
20 25 30
Pro Phe Gly Phe Arg Lys Phe Ser Ser Lys Val Gln Thr Leu Leu Glu
35 40 45

Leu Leu Pro Glu His Asp Leu Pro Glu His Leu Lys Ala Lys Thr Cys
50 55 60
Arg Arg Cys Val Val Ile Gly Ser Gly Gly Ile Leu His Gly Leu Glu
65 70 75 80
Leu Gly His Thr Leu Asn Gln Phe Asp Val Val Ile Arg Leu Asn Ser
85 90 95
Ala Pro Val Glu Gly Tyr Ser Glu His Val Gly Asn Lys Thr Thr Ile
100 105 110
Arg Met Thr Tyr Pro Glu Gly Ala Pro Leu Ser Asp Leu Glu Tyr Tyr
115 120 125
Ser Asn Asp Leu Phe Val Ala Val Leu Phe Lys Ser Val Asp Phe Asn
130 135 140
Trp Leu Gln Ala Met Val Lys Lys Glu Thr Leu Pro Phe Trp Val Arg
145 150 155 160
Leu Phe Phe Trp Lys Gln Val Ala Glu Lys Ile Pro Leu Gln Pro Lys
165 170 175
His Phe Arg Ile Leu Asn Pro Val Ile Ile Lys Glu Thr Ala Phe Asp
180 185 190
Ile Leu Gln Tyr Ser Glu Pro Gln Ser Arg Phe Trp Gly Arg Asp Lys
195 200 205
Asn Val Pro Thr Ile Gly Val Ile Ala Val Val Leu Ala Thr His Leu
210 215 220
Cys Asp Glu Val Ser Leu Ala Gly Phe Gly Tyr Asp Leu Asn Gln Pro
225 230 235 240
Arg Thr Pro Leu His Tyr Phe Asp Ser Gln Cys Met Ala Ala Met Asn
245 250 255
Phe Gln Thr Met His Asn Val Thr Thr Glu Thr Lys Phe Leu Leu Lys
260 265 270
Leu Val Lys Glu Gly Val Val Lys Asp Leu Ser Gly Gly Ile Asp Arg

275 280 285
Glu Phe
290

<210> 2660

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2660

Met Lys Ser Gly Pro Pro Leu Gln Val His Leu Glu Ile Thr Val Trp
1 5 10 15
Leu Pro Arg Thr Ser His His Leu Thr Pro Pro Ser Pro Leu Leu Gln
20 25 30
Ile Phe Cys Gly Leu Tyr Ser Tyr Pro Cys Phe Arg Phe Ser Val Val
35 40 45
Tyr Ile His Ala Cys Leu Gly Pro Tyr Lys Ser Pro His Lys Thr Ser
50 55 60
Thr Thr Phe Ile Cys Leu Gln Asn Thr His Cys Phe Pro Ile Arg Lys
65 70 75 80
Ile Ser Asn Val Val Ser Gly Leu Val Leu Ser Gln Lys Val Ser Val
85 90 95
Trp Trp Phe Leu Ala Phe Leu Gln Asp Gly Ala Gln Gly Thr Ala Ala
100 105 110
Arg Pro Gly Ser Leu Arg Cys Pro Pro Pro Ala Pro Val Leu Gln Pro
115 120 125
Cys Val Ile Ser Arg Asp Arg Val Arg Val Ser Val Gly Phe Val Phe
130 135 140

Ala Glu Glu Arg Met Cys Arg Ser Ile Ala Ile Val Ser Phe Pro Phe
145 150 155 160
Leu

<210> 2661

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2661

Met Gly Met Asp Gly Arg Gly Gln Pro Ser Leu Leu Gly Phe Ser Pro
1 5 10 15
Gln Ile Leu Leu Leu Asp Gly His Val Gln Ser Arg Pro Met Gln Arg
20 25 30
Thr Ala Gly Leu Arg Val Leu Ser Cys Leu Pro Gln Cys Gly Gly Glu
35 40 45
Trp Arg Trp Leu Trp Gly Thr Pro His Pro Met Gly Phe Thr Leu Trp
50 55 60
Asn Arg His Tyr Gln Ala Ser Leu Leu Ser Val Arg His Lys Lys Gly
65 70 75 80
Leu Thr His Phe Pro Trp Ser Leu His Ile Ser His Tyr Leu Cys Ala
85 90 95
Gln Gln Lys Ser Val Phe Thr Cys
100

<210> 2662

<211> 408

<212> PRT

<213> Homo sapiens

<400> 2662

Met Asp Ala Glu Ala Cys Leu Arg Gly Leu His Leu His Ile Val Pro

1 5 10 15

Cys Lys His Val Leu Ser Trp Pro Pro Ser Ser Pro Gly Pro Pro Glu

20 25 30

Thr Thr Ala Arg Pro Thr Pro Gly Ala Ala Pro Val Pro Pro Ala Leu

35 40 45

Tyr Ser Ser Pro Ser Pro Gln Ala Val Gln Val Gly Gly Thr Ala Ser

50 55 60

Leu His Cys Asp Val Ser Gly Arg Pro Pro Pro Ala Val Thr Trp Glu

65 70 75 80

Lys Gln Ser His Gln Arg Glu Asn Leu Ile Met Arg Pro Asp Gln Met

85 90 95

Tyr Gly Asn Val Val Val Thr Ser Ile Gly Gln Leu Val Leu Ser Asn

100 105 110

Ala Arg Pro Glu Asp Ala Gly Leu Tyr Thr Cys Thr Ala Arg Asn Ala

115 120 125

Ala Gly Leu Leu Arg Ala Asp Phe Pro Leu Ser Val Val Gln Arg Glu

130 135 140

Pro Ala Arg Asp Ala Ala Pro Ser Ile Pro Ala Pro Ala Glu Cys Leu

145 150 155 160

Pro Asp Val Gln Ala Cys Thr Gly Pro Thr Ser Pro His Leu Val Leu

165 170 175

Trp His Tyr Asp Pro Gln Arg Gly Gly Cys Met Thr Phe Pro Ala Arg

180 185 190

Gly Cys Asp Gly Ala Ala Arg Gly Phe Glu Thr Tyr Glu Ala Cys Gln
 195 200 205
 Gln Ala Cys Ala Arg Gly Pro Gly Asp Ala Cys Val Leu Pro Ala Val
 210 215 220
 Gln Gly Pro Cys Arg Gly Trp Glu Pro Arg Trp Ala Tyr Ser Pro Leu
 225 230 235 240
 Leu Gln Gln Cys His Pro Phe Val Tyr Gly Gly Cys Glu Gly Asn Gly
 245 250 255
 Asn Asn Phe His Ser Arg Glu Ser Cys Glu Asp Ala Cys Pro Val Pro
 260 265 270
 Arg Thr Pro Pro Cys Arg Ala Cys Arg Leu Arg Ser Lys Leu Ala Leu
 275 280 285
 Ser Leu Cys Arg Ser Asp Phe Ala Ile Val Gly Arg Leu Thr Glu Val
 290 295 300
 Leu Glu Glu Pro Glu Ala Ala Gly Gly Ile Ala Arg Val Ala Leu Glu
 305 310 315 320
 Asp Val Leu Lys Asp Asp Lys Met Gly Leu Lys Phe Leu Gly Thr Lys
 325 330 335
 Tyr Leu Glu Val Thr Leu Ser Gly Met Asp Trp Ala Cys Pro Cys Pro
 340 345 350
 Asn Met Thr Ala Gly Asp Gly Pro Leu Val Ile Met Gly Glu Val Arg
 355 360 365
 Asp Gly Val Ala Val Leu Asp Ala Gly Ser Tyr Val Arg Ala Ala Ser
 370 375 380
 Glu Lys Arg Val Lys Lys Ile Leu Glu Leu Leu Glu Lys Gln Ala Cys
 385 390 395 400
 Glu Leu Leu Asn Arg Phe Gln Asp
 405

<210> 2663

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2663

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Met Glu Trp Leu Arg Arg His Leu Glu Asn Gly Lys Glu Thr Leu Gln
  1             5             10             15
His Ala Asp Pro Pro Lys Ala His Val Thr Gln His Pro Ile Ser Asp
          20             25             30
His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Leu Tyr Pro Ala Glu
          35             40             45
Ile Thr Leu Thr Trp Gln Gln Asp Gly Glu Asp Gln Thr Gln Asp Thr
          50             55             60
Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp
          65             70             75             80
Val Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Met Cys His
          85             90             95
Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu Arg Trp Glu Pro
          100            105            110
Ser Ser Gln Pro Thr Ile Pro Ile Val Gly Ile Val Ala Gly Leu Phe
          115            120            125
Leu Leu Gly Ala Val Val Thr Gly Ala Val Val Ala Ala Ala Met Trp
          130            135            140
Arg Lys Lys Ser Ser Gly Ser Asn Cys Ala Gln Tyr Ser Asp Ala Ser
          145            150            155            160
His Asp Thr Cys Lys Glu Asp Tyr Ala Cys Ser Cys Ser Gly Val Cys
          165            170            175

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Val Leu Ile Ser Phe Ser Pro Gly Cys Pro Ser Ser Leu Thr Ala Ala
 180 185 190
 Gly Val Ile Phe Pro Val Ile Asn Pro Thr Arg Trp Lys Ala Ala Pro
 195 200 205
 Ala His Arg Ser Leu Trp Tyr
 210 215

<210> 2664

<211> 984

<212> PRT

<213> Homo sapiens

<400> 2664

Met Gln Lys Phe Lys Glu Ser Phe Arg Ala Asn Thr Pro Ile Glu Ile
 1 5 10 15
 Gly Gln Leu Gln Pro Pro Leu Arg Ser Thr Ser Ala Gly Lys Arg Lys
 20 25 30
 Arg Arg Ser Lys Ser Arg Gly Gly Ile Ser Phe Gly Arg Ala Lys Gly
 35 40 45
 Thr Ser Gly Ser Glu Ala Asp Asp Glu Thr Gln Leu Thr Phe Tyr Thr
 50 55 60
 Glu Gln Tyr Arg Ser Arg Arg Arg Ser Lys Gly Leu Leu Lys Ser Pro
 65 70 75 80
 Val Asn Lys Thr Ala Leu Thr Leu Ile Ala Val Ser Ser Cys Ile Leu
 85 90 95
 Ala Met Val Cys Gly Ser Gln Met Ser Cys Pro Leu Thr Val Lys Val
 100 105 110
 Thr Leu His Val Pro Glu His Phe Ile Ala Asp Gly Ser Ser Phe Val

115	120	125
Val Ser Glu Gly Ser Tyr Leu Asp Ile Ser Asp Trp Leu Asn Pro Ala		
130	135	140
Lys Leu Ser Leu Tyr Tyr Gln Ile Asn Ala Thr Ser Pro Trp Val Arg		
145	150	155
Asp Leu Cys Gly Gln Arg Thr Thr Asp Ala Cys Glu Gln Leu Cys Asp		
165	170	175
Pro Glu Thr Gly Glu Cys Ser Cys His Glu Gly Tyr Ala Pro Asp Pro		
180	185	190
Val His Arg His Leu Cys Val Arg Ser Asp Trp Gly Gln Ser Glu Gly		
195	200	205
Pro Trp Pro Tyr Thr Thr Leu Glu Arg Gly Tyr Asp Leu Val Thr Gly		
210	215	220
Glu Gln Ala Pro Glu Lys Ile Leu Ser Leu Gly Gln Gly Leu Trp Leu		
225	230	235
Pro Val Ser Lys Ser Phe Val Val Pro Pro Val Glu Leu Ser Ile Asn		
245	250	255
Pro Leu Ala Ser Cys Lys Thr Asp Val Leu Val Thr Glu Asp Pro Ala		
260	265	270
Asp Val Arg Glu Glu Ala Met Leu Ser Thr Tyr Phe Glu Thr Ile Asn		
275	280	285
Asp Leu Leu Ser Ser Phe Gly Pro Val Arg Asp Cys Ser Arg Asn Asn		
290	295	300
Gly Gly Cys Thr Arg Asn Phe Lys Cys Val Ser Asp Arg Gln Val Asp		
305	310	315
Ser Ser Gly Cys Val Cys Pro Glu Glu Leu Lys Pro Met Lys Asp Gly		
325	330	335
Ser Gly Cys Tyr Asp His Ser Lys Gly Ile Asp Cys Ser Asp Gly Phe		
340	345	350

Asn Gly Gly Cys Glu Gln Leu Cys Leu Gln Gln Thr Leu Pro Leu Pro			
355	360	365	
Tyr Asp Ala Thr Ser Ser Thr Ile Phe Met Phe Cys Gly Cys Val Glu			
370	375	380	
Glu Tyr Lys Leu Ala Pro Asp Gly Lys Ser Cys Leu Met Leu Ser Asp			
385	390	395	400
Val Cys Glu Gly Pro Lys Cys Leu Lys Pro Asp Ser Lys Phe Asn Asp			
405	410	415	
Thr Leu Phe Gly Glu Met Leu His Gly Tyr Asn Asn Arg Thr Gln His			
420	425	430	
Val Asn Gln Gly Gln Val Phe Gln Met Thr Phe Arg Glu Asn Asn Phe			
435	440	445	
Ile Lys Asp Phe Pro Gln Leu Ala Asp Gly Leu Leu Val Ile Pro Leu			
450	455	460	
Pro Val Glu Glu Gln Cys Arg Gly Val Leu Ser Glu Pro Leu Pro Asp			
465	470	475	480
Leu Gln Leu Leu Thr Gly Asp Ile Arg Tyr Asp Glu Ala Met Gly Tyr			
485	490	495	
Pro Met Val Gln Gln Trp Arg Val Arg Ser Asn Leu Tyr Arg Val Lys			
500	505	510	
Leu Ser Thr Ile Thr Leu Thr Ala Gly Phe Thr Asn Val Leu Lys Ile			
515	520	525	
Leu Thr Lys Glu Ser Ser Arg Glu Glu Leu Leu Ser Phe Ile Gln His			
530	535	540	
Tyr Gly Ser His Tyr Ile Ala Glu Ala Leu Tyr Gly Ser Glu Leu Thr			
545	550	555	560
Cys Ile Ile His Phe Pro Ser Lys Lys Val Gln Gln Gln Leu Trp Leu			
565	570	575	
Gln Tyr Gln Lys Glu Thr Thr Glu Leu Gly Ser Lys Lys Glu Leu Lys			

580	585	590
Ser Met Pro Phe Ile Thr Tyr Leu Ser Gly Leu Leu Thr Ala Gln Met		
595	600	605
Leu Ser Asp Asp Gln Leu Ile Ser Gly Val Glu Ile Arg Cys Glu Glu		
610	615	620
Lys Gly Arg Cys Pro Ser Thr Cys His Leu Cys Arg Arg Pro Gly Lys		
625	630	635
Glu Gln Leu Ser Pro Thr Pro Val Leu Leu Glu Ile Asn Arg Val Val		
645	650	655
Pro Leu Tyr Thr Leu Ile Gln Asp Asn Gly Thr Lys Glu Ala Phe Lys		
660	665	670
Ser Ala Leu Met Ser Ser Tyr Trp Cys Ser Gly Lys Gly Asp Val Ile		
675	680	685
Asp Asp Trp Cys Arg Cys Asp Leu Ser Ala Phe Asp Ala Asn Gly Leu		
690	695	700
Pro Asn Cys Ser Pro Leu Leu Gln Pro Val Leu Arg Leu Ser Pro Thr		
705	710	715
Val Glu Pro Ser Ser Thr Val Val Ser Leu Glu Trp Val Asp Val Gln		
725	730	735
Pro Ala Ile Gly Thr Lys Val Ser Asp Tyr Ile Leu Gln His Lys Lys		
740	745	750
Val Asp Glu Tyr Thr Asp Thr Asp Leu Tyr Thr Gly Glu Phe Leu Ser		
755	760	765
Phe Ala Asp Asp Leu Leu Ser Gly Leu Gly Thr Ser Cys Val Ala Ala		
770	775	780
Gly Arg Ser His Gly Glu Val Pro Glu Val Ser Ile Tyr Ser Val Ile		
785	790	795
Phe Lys Cys Leu Glu Pro Asp Gly Leu Tyr Lys Phe Thr Leu Tyr Ala		
805	810	815

Val Asp Thr Arg Gly Arg His Ser Glu Leu Ser Thr Val Thr Leu Arg
820 825 830
Thr Ala Cys Pro Leu Val Asp Asp Asn Lys Ala Glu Glu Ile Ala Asp
835 840 845
Lys Ile Tyr Asn Leu Tyr Asn Gly Tyr Thr Ser Gly Lys Glu Gln Gln
850 855 860
Met Ala Tyr Asn Thr Leu Met Glu Val Ser Ala Ser Met Leu Phe Arg
865 870 875 880
Val Gln His His Tyr Asn Ser His Tyr Glu Lys Phe Gly Asp Phe Val
885 890 895
Trp Arg Ser Glu Asp Glu Leu Gly Pro Arg Lys Ala His Leu Ile Leu
900 905 910
Arg Arg Leu Glu Arg Val Ser Ser His Cys Ser Ser Leu Leu Arg Ser
915 920 925
Ala Tyr Ile Gln Ser Arg Val Glu Thr Val Pro Tyr Leu Phe Cys Arg
930 935 940
Ser Glu Glu Val Arg Pro Ala Gly Met Val Trp Tyr Ser Ile Leu Lys
945 950 955 960
Asp Thr Lys Ile Thr Cys Glu Glu Lys Met Val Ser Met Ala Arg Asn
965 970 975
Thr Tyr Gly Glu Ser Lys Gly Arg
980

<210> 2665

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2665

Met Leu Gln Val Asn Pro Glu Glu Arg Leu Ser Ile Ala Glu Val Val

1 5 10 15

His Gln Leu Gln Glu Ile Ala Ala Ala Arg Asn Val Asn Pro Lys Ser

20 25 30

Pro Ile Thr Glu Leu Leu Glu Gln Asn Gly Gly Tyr Gly Ser Ala Thr

35 40 45

Leu Ser Arg Gly Pro Pro Pro Pro Val Gly Pro Ala Gly Ser Gly Tyr

50 55 60

Ser Gly Gly Leu Ala Leu Ala Glu Tyr Asp Gln Pro Tyr Gly Gly Phe

65 70 75 80

Leu Asp Ile Leu Arg Gly Gly Thr Glu Arg Leu Phe Thr Asn Leu Lys

85 90 95

Asp Thr Ser Ser Lys Val Ile Gln Ser Val Ala Lys

100 105

<210> 2666

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2666

Met Met Tyr Val Pro Gln Asn Gln Val Ile Leu Ser Val Leu Phe Gln

1 5 10 15

Tyr Phe Phe Val Asn Leu Trp Ser Cys Ala Pro Ile Thr Thr Ile Pro

20 25 30

Ile Leu Glu Arg Leu Tyr His Phe Leu Phe Pro Ser Pro Ala Leu Cys

35 40 45

Asn His Glu Ser Ala Phe Cys Leu Tyr Gly Phe Ala Phe Phe Arg His
50 55 60
Leu Tyr Gln Trp Gln Leu Thr Val His Gly Leu His Ala Trp Leu Leu
65 70 75 80
Ser Leu Ser Ile Leu Phe Pro Arg Phe Ile His Val Val Ala Cys Gly
85 90 95
Ser Ala Ser Phe Leu Ser Val Ala Glu Glu Tyr Ser Ile Val Trp Thr
100 105 110
Asp Arg Val Leu Ile Ile His Ser Ser Val Asp Gly His Arg Gly Cys
115 120 125
Phe His Leu Pro
130

<210> 2667

<211> 373

<212> PRT

<213> Homo sapiens

<400> 2667

Met Gly Ser Gln Val Ser Val Glu Ser Gly Ala Leu His Val Val Ile
1 5 10 15
Val Gly Gly Gly Phe Gly Gly Ile Ala Ala Ala Ser Gln Leu Gln Ala
20 25 30
Leu Asn Val Pro Phe Met Leu Val Asp Met Lys Asp Ser Phe His His
35 40 45
Asn Val Ala Ala Leu Arg Ala Ser Val Glu Thr Gly Phe Ala Lys Lys
50 55 60
Thr Phe Ile Ser Tyr Ser Val Thr Phe Lys Asp Asn Phe Arg Gln Gly

65 70 75 80
Leu Val Val Gly Ile Asp Leu Lys Asn Gln Met Val Leu Leu Gln Gly
85 90 95
Gly Glu Ala Leu Pro Phe Ser His Leu Ile Leu Ala Thr Gly Ser Thr
100 105 110
Gly Pro Phe Pro Gly Lys Phe Asn Glu Val Ser Ser Gln Gln Ala Ala
115 120 125
Ile Gln Ala Tyr Glu Asp Met Val Arg Gln Val Gln Arg Ser Arg Phe
130 135 140
Ile Val Val Val Gly Gly Gly Ser Ala Gly Val Glu Met Ala Ala Glu
145 150 155 160
Ile Lys Thr Glu Tyr Pro Glu Lys Glu Val Thr Leu Ile His Ser Gln
165 170 175
Val Ala Leu Ala Asp Lys Glu Leu Leu Pro Ser Val Arg Gln Glu Val
180 185 190
Lys Glu Ile Leu Leu Arg Lys Gly Val Gln Leu Leu Leu Ser Glu Arg
195 200 205
Val Ser Asn Leu Glu Glu Leu Pro Leu Asn Glu Tyr Arg Glu Tyr Ile
210 215 220
Lys Val Gln Thr Asp Lys Gly Thr Glu Val Ala Thr Asn Leu Val Ile
225 230 235 240
Leu Cys Thr Gly Ile Lys Ile Asn Ser Ser Ala Tyr Arg Lys Ala Phe
245 250 255
Glu Ser Arg Leu Ala Ser Ser Gly Ala Leu Arg Val Asn Glu His Leu
260 265 270
Gln Val Glu Gly His Ser Asn Val Tyr Ala Ile Gly Asp Cys Ala Asp
275 280 285
Val Arg Thr Pro Lys Met Ala Tyr Leu Ala Gly Leu His Ala Asn Ile
290 295 300

Ala Val Ala Asn Ile Val Asn Ser Val Lys Gln Arg Pro Leu Gln Ala
 305 310 315 320
 Tyr Lys Pro Gly Ala Leu Thr Phe Leu Leu Ser Met Gly Arg Asn Asp
 325 330 335
 Gly Val Gly Gln Ile Ser Gly Phe Tyr Val Gly Arg Leu Met Val Arg
 340 345 350
 Leu Thr Lys Ser Arg Asp Leu Phe Val Ser Thr Ser Trp Lys Thr Met
 355 360 365
 Arg Gln Ser Pro Pro
 370

<210> 2668

<211> 478

<212> PRT

<213> Homo sapiens

<400> 2668

Met Ser Ser Cys Gln Gly Ser Leu His Gly Pro Arg Arg Pro Gln Pro
 1 5 10 15
 Gly Ala Ser Gly Arg Ser Thr His Thr Asp Gly Gly Gly Ser Ser Pro
 20 25 30
 Ala Gly Glu Gln Glu Pro Ser Gln His Arg Thr Gly Ala Ala Val Gln
 35 40 45
 Arg Lys Pro Trp Pro Ser Gly Gly Leu Trp Arg Gln Asp Gln Gln Pro
 50 55 60
 Gly Pro Gly Glu Ala Pro His Thr Gln Ala Phe Gly Glu Trp Pro Trp
 65 70 75 80
 Gly Gln Glu Leu Gly Ser Arg Ala Pro Gly Leu Gly Gly Asp Ala Gly

	85	90	95
Ser Pro Ala Pro Pro Phe His Ser Ser Ser Tyr Arg Ile Ser Leu Ala			
100	105	110	
Gly Val Glu Pro Ser Leu Val Gln Ala Ala Leu Gly Gln Leu Val Arg			
115	120	125	
Leu Ser Cys Ser Asp Asp Thr Ala Pro Glu Ser Gln Ala Ala Trp Gln			
130	135	140	
Lys Asp Gly Gln Pro Ile Ser Ser Asp Arg His Arg Leu Gln Phe Asp			
145	150	155	160
Gly Ser Leu Ile Ile His Pro Leu Gln Ala Glu Asp Ala Gly Thr Tyr			
165	170	175	
Ser Cys Gly Ser Thr Arg Pro Gly Arg Asp Ser Gln Lys Ile Gln Leu			
180	185	190	
Arg Ile Ile Gly Gly Asp Met Ala Val Leu Ser Glu Ala Glu Leu Ser			
195	200	205	
Arg Phe Pro Gln Pro Arg Asp Pro Ala Gln Asp Phe Gly Gln Ala Gly			
210	215	220	
Ala Ala Gly Pro Leu Gly Ala Ile Pro Ser Ser His Pro Gln Pro Ala			
225	230	235	240
Asn Arg Leu Arg Leu Asp Gln Asn Gln Pro Arg Val Val Asp Ala Ser			
245	250	255	
Pro Gly Gln Arg Ile Arg Met Thr Cys Arg Ala Glu Gly Phe Pro Pro			
260	265	270	
Pro Ala Ile Glu Trp Gln Arg Asp Gly Gln Pro Val Ser Ser Pro Arg			
275	280	285	
His Gln Leu Gln Pro Asp Gly Ser Leu Val Ile Ser Arg Val Ala Val			
290	295	300	
Glu Asp Gly Gly Phe Tyr Thr Cys Val Ala Phe Asn Gly Gln Asp Arg			
305	310	315	320

出証特 2 0 0 4 - 3 0 5 9 6 6 1

1 5 10 15
Gln Glu His Ser Phe Leu Phe Tyr Leu Phe Ile Tyr Leu Phe Tyr Tyr
 20 25 30
Thr Leu Ser Ser Arg Val His Val His Asn Val Gln Val Cys Tyr Ile
 35 40 45
Cys Ile His Val Pro Tyr Trp Phe Val Ala Pro Ile Asn Ser Ser Phe
 50 55 60
Thr Leu Gly Ile Ser Pro Asn Ala Ile Pro Pro Pro Phe Pro His Pro
65 70 75 80
Met Thr Gly Cys Val Met Ser Pro Ala Leu Cys Pro Ser Val Leu Ile
 85 90 95
Val Gln Phe Pro Pro Met Ser Glu Asn Met Arg Cys Ser Val Phe Ser
 100 105 110
Pro Cys Asp Ser Phe Leu Arg Met Met Val Ser Ser Phe Ile His Val
 115 120 125
Pro Thr Lys Asp Met Ser Ser Ser Phe Leu Trp Leu His Ser Val Pro
130 135 140
Trp Cys Ile Cys Ala Thr Phe Ser Gln Ser Ser Val Ser Trp Met Asp
145 150 155 160
Ile Trp Val Gly Ser Lys Ser Leu Leu Leu
 165 170

<210> 2670

<211> 638

<212> PRT

<213> Homo sapiens

<400> 2670

Met Ala Glu His Arg Ser Met Asp Gly Arg Met Glu Ala Ala Thr Arg
 1 5 10 15
 Gly Gly Ser His Leu Gln Ala Ala Ala Gln Thr Pro Pro Arg Pro Gly
 20 25 30
 Pro Pro Ser Ala Pro Pro Pro Pro Pro Lys Glu Gly His Gln Glu Gly
 35 40 45
 Leu Val Glu Leu Pro Ala Ser Phe Arg Glu Leu Leu Thr Phe Phe Cys
 50 55 60
 Thr Asn Ala Thr Ile His Gly Ala Ile Arg Leu Val Cys Ser Arg Gly
 65 70 75 80
 Asn Arg Leu Lys Thr Thr Ser Trp Gly Leu Leu Ser Leu Gly Ala Leu
 85 90 95
 Val Ala Leu Cys Trp Gln Leu Gly Leu Leu Phe Glu Arg His Trp His
 100 105 110
 Arg Pro Val Leu Met Ala Val Ser Val His Ser Glu Arg Lys Leu Leu
 115 120 125
 Pro Leu Val Thr Leu Cys Asp Gly Asn Pro Arg Arg Pro Ser Pro Val
 130 135 140
 Leu Arg His Leu Glu Leu Leu Asp Glu Phe Ala Arg Glu Asn Ile Asp
 145 150 155 160
 Ser Leu Tyr Asn Val Asn Leu Ser Lys Gly Arg Ala Ala Leu Ser Ala
 165 170 175
 Thr Val Pro Arg His Glu Pro Pro Phe His Leu Asp Arg Glu Ile Arg
 180 185 190
 Leu Gln Arg Leu Ser His Ser Gly Ser Arg Val Arg Val Gly Phe Arg
 195 200 205
 Leu Cys Asn Ser Thr Gly Gly Asp Cys Phe Tyr Arg Gly Tyr Thr Ser
 210 215 220
 Gly Val Ala Ala Val Gln Asp Trp Tyr His Phe His Tyr Val Asp Ile

225	230	235	240
Leu Ala Leu Leu Pro Ala Ala Trp Glu Asp Ser His Gly Ser Gln Asp			
	245	250	255
Gly His Phe Val Leu Ser Cys Ser Tyr Asp Gly Leu Asp Cys Gln Ala			
	260	265	270
Arg Gln Phe Arg Thr Phe His His Pro Thr Tyr Gly Ser Cys Tyr Thr			
	275	280	285
Val Asp Gly Val Trp Thr Ala Gln Arg Pro Gly Ile Thr His Gly Val			
	290	295	300
Gly Leu Val Leu Arg Val Glu Gln Gln Pro His Leu Pro Leu Leu Ser			
305	310	315	320
Thr Leu Ala Gly Ile Arg Val Met Val His Gly Arg Asn His Thr Pro			
	325	330	335
Phe Leu Gly His His Ser Phe Ser Val Arg Pro Gly Thr Glu Ala Thr			
	340	345	350
Ile Ser Ile Arg Glu Asp Glu Val His Arg Leu Gly Ser Pro Tyr Gly			
	355	360	365
His Cys Thr Ala Gly Gly Glu Gly Val Glu Val Glu Leu Leu His Asn			
	370	375	380
Thr Ser Tyr Thr Arg Gln Ala Cys Leu Val Ser Cys Phe Gln Gln Leu			
385	390	395	400
Met Val Glu Thr Cys Ser Cys Gly Tyr Tyr Leu His Pro Leu Pro Ala			
	405	410	415
Gly Ala Glu Tyr Cys Ser Ser Ala Arg His Pro Ala Trp Gly His Cys			
	420	425	430
Phe Tyr Arg Leu Tyr Gln Asp Leu Glu Thr His Arg Leu Pro Cys Thr			
	435	440	445
Ser Arg Cys Pro Arg Pro Cys Arg Glu Ser Ala Phe Lys Leu Ser Thr			
	450	455	460

Gly Thr Ser Arg Trp Pro Ser Ala Lys Ser Ala Gly Trp Thr Leu Ala
465 470 475 480
Thr Leu Gly Glu Gln Gly Leu Pro His Gln Ser His Arg Gln Arg Ser
485 490 495
Ser Leu Ala Lys Ile Asn Ile Val Tyr Gln Glu Leu Asn Tyr Arg Ser
500 505 510
Val Glu Glu Ala Pro Val Tyr Ser Val Pro Gln Leu Leu Ser Ala Met
515 520 525
Gly Ser Leu Cys Ser Leu Trp Phe Gly Ala Ser Val Leu Ser Leu Leu
530 535 540
Glu Leu Leu Glu Leu Leu Leu Asp Ala Ser Ala Leu Thr Leu Val Leu
545 550 555 560
Gly Gly Arg Arg Leu Arg Arg Ala Trp Phe Ser Trp Pro Arg Ala Ser
565 570 575
Pro Ala Ser Gly Ala Ser Ser Ile Lys Pro Glu Ala Ser Gln Met Pro
580 585 590
Pro Pro Ala Gly Gly Thr Ser Asp Asp Pro Glu Pro Ser Gly Pro His
595 600 605
Leu Pro Arg Val Met Leu Pro Gly Val Leu Ala Gly Val Ser Ala Glu
610 615 620
Glu Ser Trp Ala Gly Pro Gln Pro Leu Glu Thr Leu Asp Thr
625 630 635

<210> 2671

<211> 637

<212> PRT

<213> Homo sapiens

<400> 2671

Met	Arg	Arg	Val	Val	Leu	Leu	Leu	Gly	Leu	Leu	Asn	Glu	Asp	Asp	Ala
1				5					10					15	
Cys	His	Ala	Ser	Phe	Leu	Arg	Val	Ser	Lys	Met	Arg	Leu	Ser	Val	Phe
				20					25					30	
Leu	Lys	Lys	Gln	Glu	Glu	Ser	Gln	Phe	His	Pro	Leu	Glu	Trp	Leu	Ala
			35					40						45	
Arg	Glu	Ala	Cys	Asn	Gln	Asp	Ala	Leu	Gln	Glu	Ala	Gly	Thr	Phe	Arg
	50					55						60			
His	Thr	Leu	Trp	Lys	Arg	Val	Gln	Gly	Ala	Val	Thr	Pro	Leu	Leu	Ala
	65				70					75				80	
Ser	Met	Ile	Ser	Phe	Ile	Asp	Arg	Asp	Gly	Asn	Leu	Glu	Leu	Leu	Thr
				85						90				95	
Arg	Pro	Asp	Thr	Pro	Pro	Trp	Ala	Arg	Asp	Leu	Trp	Met	Phe	Ile	Phe
			100					105						110	
Ser	Asp	Thr	Met	Leu	Leu	Asn	Ile	Pro	Leu	Val	Met	Asn	Asn	Glu	Arg
	115						120						125		
His	Lys	Gly	Glu	Met	Ala	Tyr	Ile	Val	Val	Gln	Asn	His	Met	Asn	Leu
	130						135						140		
Ser	Glu	Asn	Ala	Ser	Asn	Asn	Val	Pro	Phe	Ser	Trp	Lys	Ile	Lys	Asp
	145				150					155				160	
Tyr	Leu	Glu	Glu	Leu	Trp	Val	Gln	Ala	Gln	Tyr	Ile	Thr	Asp	Ala	Glu
				165					170					175	
Gly	Leu	Pro	Lys	Lys	Phe	Val	Asp	Ile	Phe	Gln	Gln	Thr	Pro	Leu	Gly
			180						185					190	
Arg	Phe	Leu	Ala	Gln	Leu	His	Gly	Glu	Pro	Gln	Gln	Glu	Leu	Leu	Gln
		195					200						205		
Cys	Tyr	Leu	Lys	Asp	Phe	Ile	Leu	Leu	Thr	Met	Arg	Val	Ser	Thr	Glu
	210						215							220	

Glu Glu Leu Lys Phe Leu Gln Met Ala Leu Trp Ser Cys Thr Arg Lys
225 230 235 240
Leu Lys Ala Ala Ser Glu Ala Pro Glu Glu Glu Val Ser Leu Pro Trp
245 250 255
Val His Leu Ala Tyr Gln Arg Phe Arg Ser Arg Leu Gln Asn Phe Ser
260 265 270
Arg Ile Leu Thr Ile Tyr Pro Gln Val Leu His Ser Leu Met Glu Ala
275 280 285
Arg Trp Asn His Glu Leu Ala Gly Cys Glu Met Thr Leu Asp Ala Phe
290 295 300
Ala Ala Met Ala Cys Thr Glu Met Leu Thr Arg Asn Thr Leu Lys Pro
305 310 315 320
Ser Pro Gln Ala Trp Leu Gln Leu Val Lys Asn Leu Ser Met Pro Leu
325 330 335
Glu Leu Ile Cys Ser Asp Glu His Met Gln Gly Ser Gly Ser Leu Ala
340 345 350
Gln Ala Val Ile Arg Glu Val Arg Ala Gln Trp Ser Arg Ile Phe Ser
355 360 365
Thr Ala Leu Phe Val Glu His Val Leu Leu Gly Thr Glu Ser Arg Val
370 375 380
Pro Glu Leu Gln Gly Leu Val Thr Glu His Val Phe Leu Leu Asp Lys
385 390 395 400
Cys Leu Arg Glu Asn Ser Asp Val Lys Thr His Gly Pro Phe Glu Ala
405 410 415
Val Met Arg Thr Leu Ser Glu Cys Lys Glu Thr Ala Ser Lys Thr Leu
420 425 430
Ser Arg Phe Gly Ile Gln Pro Cys Ser Ile Cys Leu Gly Asp Ala Lys
435 440 445
Asp Pro Val Cys Leu Pro Cys Asp His Val His Cys Leu Arg Cys Leu

450 455 460
Arg Ala Trp Phe Ala Ser Glu Gln Met Ile Cys Pro Tyr Cys Leu Thr
465 470 475 480
Ala Leu Pro Asp Glu Phe Ser Pro Ala Val Ser Gln Ala His Arg Glu
485 490 495
Ala Ile Glu Lys His Ala Arg Phe Arg Gln Met Cys Asn Ser Phe Phe
500 505 510
Val Asp Leu Val Ser Thr Ile Cys Phe Lys Asp Asn Ala Pro Pro Glu
515 520 525
Lys Glu Val Ile Glu Ser Leu Leu Ser Leu Leu Phe Val Gln Lys Gly
530 535 540
Arg Leu Arg Asp Ala Ala Gln Arg His Cys Glu His Thr Lys Ser Leu
545 550 555 560
Ser Pro Phe Asn Asp Val Val Asp Lys Thr Pro Val Ile Arg Ser Val
565 570 575
Ile Leu Lys Leu Leu Leu Lys Tyr Ser Phe His Asp Val Lys Asp Tyr
580 585 590
Ile Gln Glu Tyr Leu Thr Leu Leu Lys Lys Lys Ala Phe Ile Thr Glu
595 600 605
Asp Lys Thr Glu Leu Tyr Met Leu Phe Ile Asn Cys Leu Glu Asp Ser
610 615 620
Ile Leu Glu Thr Pro Val Leu Thr Pro Glu Met Met Asn
625 630 635

<210> 2672

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2672

Met Ala Leu Val Thr Pro Val Gln Arg Ala Gly Ala Arg Leu Arg Ser
1 5 10 15
Ser Gly Leu Trp Arg Arg Leu Ser Gly Ser Val Gly Ser Ser Ala Ala
20 25 30
Gln Cys Cys Cys Pro Trp Gly Val Arg Ser Pro Arg Gly Glu Phe Leu
35 40 45
Arg Glu Arg Gly Arg Leu Lys Ile Ala Pro Gly Ser Gly Pro Ile Ser
50 55 60
Leu Ser Phe Gly Pro Cys Arg Leu Pro His Ser Gly Leu Gly Glu Gly
65 70 75 80
Cys Gly Pro Glu Gly Ser Leu Ser Trp Ala Val Pro Val Ser Phe Asp
85 90 95
Gln Thr Gln Pro Asp Ser Phe Ser Leu Pro Val Ala Pro Trp Thr Leu
100 105 110
Gly Pro Lys Lys Thr Asp Gln Leu Val Thr Ser Glu Pro Ala Asp Thr
115 120 125
Gln Glu Gly Glu Gln Lys Ser Leu Arg Pro Ser Ser Val Pro Ser Phe
130 135 140

<210> 2673

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2673

Met Trp Ser Val Gly Val Ile Ala Tyr Met Leu Leu Ser Gly Leu Ser

1 5 10 15
Pro Phe Leu Gly Asp Asn Asp Ala Glu Thr Leu Asn Asn Ile Leu Ala
20 25 30
Cys Arg Trp Asp Leu Glu Asp Glu Glu Phe Gln Asp Ile Ser Glu Glu
35 40 45
Ala Lys Glu Phe Ile Ser Lys Leu Leu Ile Lys Glu Lys Ser Trp Arg
50 55 60
Ile Ser Ala Ser Glu Ala Leu Lys His Pro Trp Leu Ser Asp His Lys
65 70 75 80
Leu His Ser Arg Leu Asn Ala Gln Lys Lys Lys Asn Arg Gly Ser Asp
85 90 95
Ala Gln Asp Phe Val Thr Lys
100

<210> 2674

<211> 118

<212> PRT

<213> Homo sapiens

<400> 2674

Met Val Ala Cys Leu Trp Gly Cys Lys Gly Arg Leu Arg Gln Glu Gln
1 5 10 15
Gly Thr Ala Val Gly Ser Glu Pro Leu Cys Val Ser Gly Arg Met Thr
20 25 30
Lys Ser Val Arg Thr Thr Ala Ser Leu Glu Pro His Gln Pro Ser His
35 40 45
Val Val Gln Glu Ala Arg His Arg His Tyr His Glu Asp Gln Asn Asp
50 55 60

Ser Pro His Pro Gln Pro Asn Gln Ser Arg Pro Val Arg Ser Ala Leu
 65 70 75 80
 Ser Ser Glu Gly Thr Val Ser Cys Arg Leu Thr Ser Cys Val Leu Trp
 85 90 95
 Leu Leu Pro Gln Ser Asp Gln Cys Asp Cys Thr Gly Ser Leu Phe Leu
 100 105 110
 Ala Gly Glu Gln Arg Thr
 115

<210> 2675

<211> 140

<212> PRT

<213> Homo sapiens

<400> 2675

Met Lys Gly Gln Glu Gly Ile Arg Gly Glu Gly Cys Thr Asp Pro Glu
 1 5 10 15
 Ile Lys Ala Ser Pro Gln Met Trp Ala Ala Arg Phe Arg Gly Met Arg
 20 25 30
 Ser Arg Phe Ser Pro Leu Phe Ser Gln Ala Thr Glu Met Gly Pro Arg
 35 40 45
 Val Ser Ala Gly Trp Cys Leu Ser Gly Gly Gly Arg Lys Val Ser Ser
 50 55 60
 Leu Gln Gly Asp Phe Pro Pro Gly Gly Phe Trp Ala Leu Ser Asn Asp
 65 70 75 80
 Ser Ala Leu Ser Leu Pro Pro Leu Ser Leu Pro His Pro His Pro Leu
 85 90 95
 Arg Pro Pro Gly Leu Gly Val Asn Glu Phe Thr Gln Gly Leu His Pro

100	105	110
Pro Leu His Pro Ala Ala Ser Val Phe Gln Thr Cys Phe Tyr Arg Lys		
115	120	125
Pro His Tyr Cys Ser Thr Leu Arg Pro Thr Thr Thr		
130	135	140

<210> 2676

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2676

Met Leu Thr Ser Cys Phe Pro Glu His Cys Glu Pro Arg Gln Gln Thr		
1	5	10
Gly Leu Trp Glu Pro Gln Leu Glu Ala Asn Trp Ser Val Pro Glu Ala		
20	25	30
Gln Thr Val Tyr Arg Tyr Val Ser Glu Gly Ser Phe Gly Asp Gly Ala		
35	40	45
Leu Asn Pro Cys Asp Arg Thr Leu Pro Arg Val His Thr Val Gly Thr		
50	55	60
Glu Leu Glu Gly Ser Ser Asp Pro Cys Val Val His Gly Glu Asp Pro		
65	70	75
Ser His Pro Pro Ser Val Trp Thr Thr Val Val Val Gly Gly Gly Glu		
85	90	95
Thr Arg Cys Glu Ser Phe Ser Leu Lys Gln Arg Gly Ser Arg Lys Leu		
100	105	110
Gln Glu Phe Pro Lys Lys Glu Thr Gln Ser Ala Ser Arg His Thr Lys		
115	120	125

His Ser Cys Phe Asp Asp Arg Glu Arg Asn Ala Ser Leu Pro Ala Thr
 130 135 140
 Pro Ala Ser Thr Pro Gln Ala Glu Glu Gln Glu Leu Trp Arg Ala Arg
 145 150 155 160
 Gly Ala Gly Glu Val Ser Pro His Cys Pro Trp Gly Val
 165 170

<210> 2677

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2677

Met Cys His Leu Ile Phe Leu Gln Val Gly Phe Ile Asp Tyr Ile Val
 1 5 10 15
 His Pro Leu Trp Glu Thr Trp Ala Asp Leu Val Gln Pro Asp Ala Gln
 20 25 30
 Asp Ile Leu Asp Thr Leu Glu Asp Asn Arg Asn Trp Tyr Gln Ser Met
 35 40 45
 Ile Pro Gln Ser Pro Ser Pro Pro Leu Asp Glu Gln Asn Arg Asp Cys
 50 55 60
 Gln Gly Leu Met Glu Lys Phe Gln Phe Glu Leu Thr Leu Asp Glu Glu
 65 70 75 80
 Asp Ser Glu Gly Pro Glu Lys Glu Gly Glu Gly His Ser Tyr Phe Ser
 85 90 95
 Ser Thr Lys Thr Pro Cys Val Ile Asp Pro Glu Asn Arg Asp Ser Leu
 100 105 110
 Gly Glu Thr Asp Ile Asp Ile Ala Thr Glu Asp Lys Ser Pro Val Asp

115 120 125

Thr

<210> 2678

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2678

Met Arg Glu Glu Glu Ser Ala Ile Ile Pro Glu Ser Pro Gly Leu Gly

1 5 10 15

Cys Leu Lys Glu Gly Glu Glu Arg His Pro Ala Leu Pro Pro Ala His

20 25 30

Gly Pro Cys Gln Leu Pro Arg Gly Pro His Leu Ser Gln Arg Ala Pro

35 40 45

Leu Asp Gly Leu His His His Ser Leu Val Leu Leu Leu Asp Val Lys

50 55 60

Ala Ile Val Leu Leu Leu Gly Gln Asp Leu Gly Ala Gln Gly Arg Arg

65 70 75 80

Asn Pro Val Arg Glu Arg Gly Gly Pro Thr Ala Ser Pro Thr Val Ala

85 90 95

Pro Thr Gly Pro

100

<210> 2679

<211> 254

<212> PRT

<213> Homo sapiens

<400> 2679

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Met Asp Gln Ser Ser Glu Gly Cys Met Lys Lys Ile Ser Ser Val Asn
  1              5              10              15
Leu Asp Lys Leu Ile Asn Asp Phe Ser Gln Ile Glu Lys Lys Met Val
          20              25              30
Glu Thr Asn Gly Lys Asn Asn Ile Leu Asp Ile Gln Leu Glu Lys Ser
          35              40              45
Asn Cys Leu Leu Lys Val Met Gln Ala Lys Glu Val Ser Ile Lys Glu
          50              55              60
Glu Cys Ala Thr Leu His Asn Ile Ile Lys Gly Leu Gln Gln Thr Ile
          65              70              75              80
Glu Tyr Gln Gln Asn Leu Lys Gly Glu Asn Glu Gln Leu Lys Ile Ser
          85              90              95
Ala Asp Leu Ile Lys Glu Lys Leu Lys Ser His Glu Gln Glu Tyr Lys
          100             105             110
Asn Asn Ile Ala Lys Leu Val Ser Glu Met Lys Ile Lys Glu Glu Gly
          115             120             125
Tyr Lys Lys Glu Ile Ser Lys Leu Tyr Gln Asp Met Gln Arg Lys Val
          130             135             140
Glu Leu Asn Glu Glu Lys His Lys Glu Leu Ile Glu Lys Lys Glu Met
          145             150             155             160
Glu Ile Ser Glu Leu Asn Ala Lys Leu Arg Ser Gln Glu Lys Glu Lys
          165             170             175
Gln Asn Glu Ile Ile Lys Leu Gln Leu Glu Phe Asp Ala Lys Leu Ala
          180             185             190
Arg Val Gln Thr Lys Ser Lys Ser Tyr Gln Asp Ser Thr Val Leu Pro

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195 200 205
 Gln Ser Ile Tyr Arg Arg Lys Leu Gln His Phe Gln Glu Glu Lys Asn
 210 215 220
 Lys Glu Ile Ala Ile Leu Arg Asn Thr Ile Arg Asp Leu Glu Gln Arg
 225 230 235 240
 Leu Ser Val Gly Lys Asp Ser His Leu Lys Arg Arg Arg Phe
 245 250

<210> 2680

<211> 172

<212> PRT

<213> Homo sapiens

<400> 2680

Met Pro Ile Leu Gln Met Glu Lys Pro Arg Ala Gln Arg Cys Cys His
 1 5 10 15
 Phe Ser Lys Val Lys Gln Ser Leu Ser Ala Glu Ala Gln Ile Gln Thr
 20 25 30
 Gln Val Ser Gly Ser Ser Thr Tyr Cys Ile Val Leu Pro Val Ser Ser
 35 40 45
 Asn Arg Asn His Phe Ser Ser Thr Ser Phe Tyr Leu Phe Val Phe Tyr
 50 55 60
 Glu Thr Gly Ser His Ser Val Ser Trp Ala Gly Val Arg Trp Cys Asp
 65 70 75 80
 His Cys Ser Leu Gln Ser Pro Pro Pro Arg Phe Glu Gln Phe Ser Cys
 85 90 95
 Leu Ser Leu Pro His Ser Trp Asn Tyr Thr Ser Thr Pro Ser Tyr Gln
 100 105 110

Ala Asn Phe Leu Ser Phe Val Val Glu Ile Gly Ser His Tyr Val Ala
 115 120 125
 Gln Ala Gly Leu Lys Leu Leu Gly Ser Ser Asp Pro Pro Thr Leu Ala
 130 135 140
 Ser Gln Ser Ala Gly Ile Thr Arg Val Asn His Arg Ala Trp Pro Ser
 145 150 155 160
 Asn Ile Ser Leu Leu Phe Asn Gln Lys Leu Thr Gln
 165 170

<210> 2681

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2681

Met Asp Ala Glu Lys Ala Phe Asp Lys Asn His Thr Phe Ile Ile Lys
 1 5 10 15
 Ala Phe Asn Lys Leu Gly Ile Glu Gly Asn Tyr Leu Asn Ile Ile Lys
 20 25 30
 Ala Ile Tyr Glu Lys Pro Thr Thr Ile Met Leu Thr Ser Pro His Leu
 35 40 45
 Lys Thr Asp Ser Phe Ser Pro Lys Ile Arg Tyr Lys Gly Lys Met Pro
 50 55 60
 Thr Leu Ser Thr Ser Val Gln His Ser Thr Gly Ser Pro His Gln Arg
 65 70 75 80
 Asn Tyr Thr Arg Lys Asn Asn Ile Ser Lys Leu Glu Arg Lys Lys Tyr
 85 90 95
 Asn Tyr Leu Tyr Ser

100

<210> 2682

<211> 259

<212> PRT

<213> Homo sapiens

<400> 2682

Met Val Ser Gly Arg Trp Ala Pro Pro Arg Gln Gly Trp Ala Ser Arg
1 5 10 15
Arg Leu Pro Gln Ala Gln Val Val Leu Lys Ser Gly Ser Pro Gly Pro
20 25 30
Ala Ser Gln Gln Val Ser Lys Leu Phe Trp Leu Asn Ser Cys Pro Ala
35 40 45
Pro Asn Arg Leu Cys Arg Pro Arg Thr Phe Ser Ser Gln Ala Leu Arg
50 55 60
Ala His Leu Leu Pro Pro Gly Gly Leu Tyr Ser Ser Ser Thr Gly Trp
65 70 75 80
Arg Thr Ala Ser Ala Gly Pro Ala Leu Ala Ser Gln Gly Pro Leu Gln
85 90 95
Ala Gln Leu Leu Pro Pro Arg Arg Pro Pro Gly Ala Arg Ser Leu Leu
100 105 110
Gly Gly Arg Arg Gly Leu Gly Pro Gly Arg Ser Arg Trp Gly Glu Ser
115 120 125
Trp Ala Trp Arg Leu Pro Trp Glu Ala Thr Ala Gly Ser Ala Asp Ala
130 135 140
Leu Leu Gln Pro Glu Leu Gly Leu Phe Ser His Trp Glu Lys Gly Cys
145 150 155 160

Gly Ser Glu Glu Leu Gly Cys Arg Asn Phe Gly Val Tyr Lys Arg Arg
 165 170 175
 Arg Glu Leu Ser Gln Lys Ser Leu Phe Ala Gly Arg Trp Glu Met Gln
 180 185 190
 Pro Gly Gly Thr Ala Gly Gln Cys Gly Arg Gln Arg Pro Gly Leu Leu
 195 200 205
 Lys Leu Ala Ser Gln Thr His Leu Gln Pro Pro Gly Ala Pro Ser Gly
 210 215 220
 Pro Ser Ser Ser Ser Arg Leu His Leu Gln Ala Gly Leu Trp Pro Asp
 225 230 235 240
 Ser Arg Ser Gln Gln Arg Leu Trp Thr Gln Leu Leu Pro Ser Ser Gln
 245 250 255
 Arg Pro Trp

<210> 2683

<211> 981

<212> PRT

<213> Homo sapiens

<400> 2683

Met Ser Glu Gln Glu Arg Ile Gln Glu Cys Leu Arg Lys Glu Ile Arg
 1 5 10 15
 Ser Leu Leu Ile Ser Thr Lys Asp Gly Leu Ser Pro Gln Glu Leu Glu
 20 25 30
 Lys Glu Tyr Leu Leu Met Val Gly Asn His Leu Pro Leu Arg Ile Leu
 35 40 45
 Gly Tyr Arg Ser Thr Met Glu Leu Val Leu Asp Met Pro Asp Val Val

50 55 60
Arg Val Cys Pro Gly Ala Gly Gly Thr Val Ile Leu Lys Ala Ile Pro
65 70 75 80
Asp Glu Ser Thr Lys Gly Ile Ala Ser Leu Val Ala Lys Gln Arg Ser
85 90 95
Ser His Lys Leu Arg Asn Ser Met His Lys Gly Arg Pro Ser Ile Tyr
100 105 110
Ser Gly Pro Arg Ser His Arg Arg Val Pro Tyr Arg Gly Arg Val Ala
115 120 125
Pro Ile Leu Pro Ala Val Val Lys Ser Glu Leu Lys Asp Leu Leu Ala
130 135 140
Leu Ser Pro Val Leu Leu Ser Asp Phe Glu Lys Ala Phe Ala Lys Arg
145 150 155 160
Phe Gly Arg Ser Phe Gln Tyr Met Gln Tyr Gly Phe Leu Ser Met Phe
165 170 175
Glu Val Leu Asn Ala Ala Ser Asp Val Ile Ser Val Glu Gln Thr Arg
180 185 190
Ala Gly Ser Leu Leu Met Leu Lys Lys Ser Val Thr Glu Glu Lys Pro
195 200 205
Arg Gly Cys Pro Ala Gly Lys Ile Phe Thr Gln Pro Phe Arg Met Lys
210 215 220
Gln Gly Ser Tyr Ser Thr Gly Phe Pro Val Ala Lys Pro Cys Phe Ser
225 230 235 240
Gln Pro Thr Ser Asn Met Glu Pro Pro Lys Gln Ile Met Ser Met Glu
245 250 255
Lys Thr Ser Lys Leu Asn Val Val Glu Thr Ser Arg Leu Asn His Thr
260 265 270
Glu Lys Leu Asn Gln Leu Glu Asn Thr Phe Lys Ser Val Ile Ala Gln
275 280 285

Ile Gly Pro Gly Gly Thr Ile Ser Ser Glu Leu Lys His Lys Ile Lys
290 295 300
Phe Val Val Ser Lys Phe Pro Glu Gly Leu Phe Ile Ser Lys Leu Leu
305 310 315 320
Gly Glu Tyr Glu Val Ile Phe Lys Glu Gln Leu Ser Pro Lys Lys Leu
325 330 335
Gly Phe Leu Asn Val Thr Glu Leu Val Gly Ala Leu Ser Asp Ile Leu
340 345 350
His Val Glu Phe Arg Lys Gly His Gln Asp Leu Leu Val Phe Asp Ala
355 360 365
Asp Lys Lys Pro Leu Pro Pro Val Gln Ser Asp Lys Lys Ile Glu Ala
370 375 380
Lys Ala Cys Val Ser Ser Pro Pro Arg Asn Ser Leu Ser Thr Ala Ala
385 390 395 400
Val Lys Glu Thr Val Trp Asn Cys Pro Ser Lys Lys Gln Lys Glu Pro
405 410 415
Gln Gln Lys Ile Cys Lys Lys Pro Asn Leu Val Val Lys Pro Leu Gln
420 425 430
Leu Gln Val Glu Thr Asn Lys Ser Glu Leu Asn Leu Ala Met Ala Asn
435 440 445
His Asp Ile Pro Pro Asp Ala Val Pro Asn Lys Lys Leu Cys Arg Leu
450 455 460
Pro Pro Leu Asp Thr Ser Ser Leu Ile Gly Val Phe Val Glu Tyr Ile
465 470 475 480
Ile Ser Pro Ser Gln Phe Tyr Ile Arg Ile Tyr Ser Arg Asp Ser Ser
485 490 495
Glu Leu Leu Glu Asp Met Met Ile Glu Met Arg Arg Cys Tyr Ser Asn
500 505 510
Gln Leu Val Ser Asp Arg Tyr Val Met Pro Glu Cys Phe Ile Gln Pro

515 520 525
Gly His Leu Cys Cys Val Arg Ile Ser Glu Asp Lys Trp Trp Tyr Arg
530 535 540
Val Ile Ile His Arg Val Leu Glu Lys Gln Glu Val Glu Val Phe Tyr
545 550 555 560
Pro Asp Phe Gly Asn Ile Gly Ile Val Gln Lys Ser Ser Leu Arg Phe
565 570 575
Leu Lys Cys Cys Tyr Thr Lys Leu Pro Ala Gln Ala Ile Pro Cys Ser
580 585 590
Leu Ala Trp Val Arg Pro Val Glu Glu His Trp Thr Ser Lys Ala Ile
595 600 605
Leu Gln Phe Gln Lys Leu Cys Gly Leu Lys Pro Leu Val Gly Val Val
610 615 620
Asp Glu Tyr Val Asp Gly Ile Leu Asn Ile Phe Leu Cys Asp Thr Ser
625 630 635 640
Ser Asn Glu Asp Val Tyr Phe His His Val Leu Arg Thr Glu Gly His
645 650 655
Ala Ile Val Cys Arg Glu Asn Ile Ser Ser Lys Gly Phe Ser Glu Leu
660 665 670
Asn Pro Leu Ala Leu Tyr Thr Thr Ser Ser Gly Gly Pro Glu Asp Ile
675 680 685
Val Leu Thr Glu Leu Gly Tyr Pro Ser Gln Gln His Tyr Phe Asn Glu
690 695 700
Asp Arg Lys Ile Ser Pro Gln Ser Lys Glu Ser Glu Leu Arg Ile Leu
705 710 715 720
Asp Glu Ile Pro Thr Gly Met Pro Cys Leu Glu Ser Val Thr Ile Gly
725 730 735
Asp Asp Ile Trp Asp Glu Asn Trp Leu Pro Leu Gln Ala Lys Met Gly
740 745 750

Lys Gly Gly Asp Ala Ala Ser His Leu Phe Thr Ala Ser Leu Gly Gly
 755 760 765
 Lys Asn Gln Tyr Ser Ser Cys Lys Glu Met Pro Gln Lys Asp Trp Cys
 770 775 780
 Phe Ser Thr Pro Lys Asp Thr Trp Asp Asp Ser Trp Gln Pro Ser Gly
 785 790 795 800
 Leu Val Asn Gly Thr Lys Val Glu Val His Lys Pro Glu Val Leu Gly
 805 810 815
 Ala Gln Glu Lys Asn Thr Gly Thr Asn Arg Thr Gln Lys Gln Leu Asp
 820 825 830
 Ile Asn Gly Ser Ser Asp Ser Ser Thr Leu Pro Lys Leu Glu Glu Phe
 835 840 845
 Cys Thr Ser Leu Thr Gln Ser Glu Gln Ser Ala Asp Gly Ser Gln Ser
 850 855 860
 Glu Pro Asn Asn Ser Gln Thr Gln Pro Lys Gln Ile Gln Leu Ser Thr
 865 870 875 880
 Ala Ala Pro Cys Ser Thr Thr Ala Val Asp Asp Ser Ala Glu Lys Pro
 885 890 895
 Ser Gly Ser Val Glu Ser Ser Pro Glu Ile Leu Lys Asn Glu Asp Phe
 900 905 910
 Ser Ser Ser Arg Ala Ile Thr Leu Tyr Lys Asp Lys Arg Gln Glu Ser
 915 920 925
 Val Asp Gln Leu Ser Leu Ile Leu Ser Tyr Glu Cys Gln Ile Ser Gln
 930 935 940
 Lys Leu Tyr Ile Pro Arg Ser Thr Ala Thr Ala Ala Leu Gly Ala Ala
 945 950 955 960
 Ala Arg Leu Ala Thr Ser Arg Ser Leu Leu His Trp Tyr Pro Ser Val
 965 970 975
 Lys Arg Met Glu Ala

980

<210> 2684

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2684

Met Val Leu Ile Cys Ile Ser Leu Met Ile Ser Asp Val Glu His Leu
 1 5 10 15
 Phe Met Cys Leu Leu Ala Ile Cys Ile Ser Ser Leu Asp Leu Lys Cys
 20 25 30
 Leu Phe Lys Ser Phe Val His Tyr Ile Tyr Leu Phe Phe Leu Arg Trp
 35 40 45
 Ser Leu Pro Val Thr Gln Ala Gly Val Gln Trp His Asp Leu Cys Ser
 50 55 60
 Leu Gln Pro Pro Pro Pro Gly Phe Lys Gln Phe Ser Cys Leu Ser Leu
 65 70 75 80
 Pro Asn Ser Trp Asp Tyr Arg Cys Val Ser Pro His Gln Ala Asn Phe
 85 90 95
 Phe Ser Ile Phe Ser Arg His Arg Val Ser Pro Leu Trp Pro Gly Trp
 100 105 110
 Ser Arg Thr Pro Asp Leu Lys
 115

<210> 2685

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2685

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Met Gly Tyr Val Arg Arg Asp Ser His Arg Leu Met Val Thr Ala Leu
  1             5             10             15
Pro Pro Ala Cys Gln Leu Val Gln Val Ala Leu Gly Cys Phe Ala Leu
          20             25             30
Arg Leu Glu Cys Glu Ile Leu Gly Glu Val Leu Ala Gln Leu Gly Thr
          35             40             45
Ser Val Leu Pro Ala Glu Glu Leu Leu Gln Ala Arg Arg Ala Ser Gly
          50             55             60
Asp Val Ala Ser Cys Val Ala Trp Leu Gln Gln Arg Leu Ala Gln Asp
          65             70             75             80
Glu Glu Pro Pro Pro Leu Pro Pro Arg Gly Ser Pro Ala Ala Tyr Arg
          85             90             95
Ala Pro Leu Asp Leu Tyr Arg Asp Leu Gln Glu Asp Glu Gly Ser Glu
          100            105            110
Asp Ala Ser Leu Tyr Gly Glu Pro Ser Pro Gly Pro Asp Ser Pro Pro
          115            120            125
Ala Glu Leu Ala Tyr Arg Pro Pro Leu Trp Glu Gln Ser Ala Lys Leu
          130            135            140
Trp Gly Thr Gly Gly Arg Ala Trp Glu Pro Pro Ala Glu Glu Leu Pro
          145            150            155            160
Gln Ala Ser Ser Pro Pro Tyr Gly Ala Leu Glu Glu Gly Leu Glu Pro
          165            170            175
Glu Pro Ser Ala Phe Ser Phe Leu Ser Leu Arg Arg Glu Leu Ser Arg
          180            185            190
Pro Gly Asp Leu Ala Thr Pro Glu Ser Ser Ala Ala Ala Ser Pro Arg

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195	200	205
Arg Ile Arg Ala Glu Gly Val Pro Ala Ser Ala Tyr Arg Ser Val Ser		
210	215	220
Glu Pro Pro Gly Tyr Gln Ala His Ser Cys Leu Ser Pro Gly Ala Leu		
225	230	235
Pro Thr Leu Cys Cys Asp Thr Cys Arg Gln Leu His Ala Ala His Cys		
245	250	255
Ala Ala Leu Pro Ala Cys Arg Pro Gly His Ser Leu Arg Val Leu Leu		
260	265	270
Gly Asp Ala Gln Arg Arg Leu Trp Leu Gln Arg Ala Gln Met Asp Thr		
275	280	285
Leu Leu Tyr Asn Ser Pro Gly Ala Arg Pro		
290	295	

<210> 2686

<211> 187

<212> PRT

<213> Homo sapiens

<400> 2686

Met Ala Ser Pro Gly Ser Gly Phe Trp Ser Phe Gly Ser Glu Asp Gly
1 5 10 15
Ser Gly Asp Ser Glu Asn Pro Gly Thr Ala Arg Ala Trp Cys Gln Val
20 25 30
Ala Gln Lys Phe Thr Gly Gly Ile Gly Asn Lys Leu Cys Ala Leu Leu
35 40 45
Tyr Gly Asp Ala Glu Lys Pro Ala Glu Ser Gly Gly Ser Gln Pro Pro
50 55 60

Arg Ala Ala Ala Arg Lys Ala Ala Cys Ala Cys Asp Gln Lys Pro Cys
 65 70 75 80
 Ser Cys Ser Lys Val Asp Val Asn Tyr Ala Phe Leu His Ala Thr Asp
 85 90 95
 Leu Leu Pro Ala Cys Asp Gly Glu Arg Pro Thr Leu Ala Phe Leu Gln
 100 105 110
 Asp Val Met Asn Ile Leu Leu Gln Tyr Val Val Lys Ser Phe Asp Arg
 115 120 125
 Ser Thr Lys Val Ile Asp Phe His Tyr Pro Asn Glu Leu Leu Gln Glu
 130 135 140
 Tyr Asn Trp Glu Leu Ala Asp Gln Pro Gln Asn Leu Glu Glu Ile Leu
 145 150 155 160
 Met His Cys Gln Thr Thr Leu Lys Tyr Ala Ile Lys Thr Gly Ile Val
 165 170 175
 Ser Ser Lys Ile Ile Lys Leu Phe Phe Arg Leu
 180 185

<210> 2687

<211> 349

<212> PRT

<213> Homo sapiens

<400> 2687

Met Gly Glu Pro Arg Glu Ser Leu Ala Pro Ala Ala Pro Ala Asp Pro
 1 5 10 15
 Gly Pro Ala Ser Pro Arg Gly Gly Thr Ala Val Ile Leu Asp Ile Phe
 20 25 30
 Arg Arg Ala Asp Lys Asn Asp Asp Gly Lys Leu Ser Leu Glu Glu Phe

35	40	45
Gln Leu Phe Phe Ala Asp Gly Val Leu Asn Glu Lys Glu Leu Glu Asp		
50	55	60
Leu Phe His Thr Ile Asp Ser Asp Asn Thr Asn His Val Asp Thr Lys		
65	70	75
Glu Leu Cys Asp Tyr Phe Val Asp His Met Gly Asp Tyr Glu Asp Val		
85	90	95
Leu Ala Ser Leu Glu Thr Leu Asn His Ser Val Leu Lys Ala Met Gly		
100	105	110
Tyr Thr Lys Lys Val Tyr Glu Gly Gly Ser Asn Val Asp Gln Phe Val		
115	120	125
Thr Arg Phe Leu Leu Lys Glu Thr Ala Asn Gln Ile Gln Ser Leu Leu		
130	135	140
Ser Ser Val Glu Ser Ala Val Glu Ala Ile Glu Glu Gln Thr Ser Gln		
145	150	155
Leu Arg Gln Asn His Ile Lys Pro Ser His Ser Ala Ala Gln Thr Trp		
165	170	175
Cys Gly Ser Pro Thr Pro Ala Ser Ala Pro Asn His Lys Leu Met Ala		
180	185	190
Met Glu Gln Gly Lys Thr Leu Pro Ser Ala Thr Glu Asp Ala Lys Glu		
195	200	205
Glu Gly Leu Glu Ala Gln Ile Ser Arg Leu Ala Glu Leu Ile Gly Arg		
210	215	220
Leu Glu Ser Lys Ala Leu Trp Phe Asp Leu Gln Gln Arg Leu Ser Asp		
225	230	235
Glu Asp Gly Thr Asn Met His Leu Gln Leu Val Arg Gln Glu Met Ala		
245	250	255
Val Cys Pro Glu Gln Leu Ser Glu Phe Leu Asp Ser Leu Arg Gln Tyr		
260	265	270

Leu Arg Gly Thr Thr Gly Val Arg Asn Cys Phe His Ile Thr Ala Val
 275 280 285
 Arg Leu Ser Asp Gly Phe Thr Phe Val Ile Tyr Glu Phe Trp Glu Thr
 290 295 300
 Glu Glu Ala Trp Lys Arg His Leu Gln Ser Pro Leu Cys Lys Ala Phe
 305 310 315 320
 Arg His Val Lys Val Asp Thr Leu Ser Gln Pro Glu Ala Leu Ser Arg
 325 330 335
 Ile Leu Val Pro Ala Ala Trp Cys Thr Val Gly Arg Asp
 340 345

<210> 2688

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2688

Met Asp Ala Ser Ile Lys Pro Gly Cys Tyr Ser Leu Gly Leu Ser Glu
 1 5 10 15
 Arg Pro Leu Glu Ser Pro Gly Arg Ser Arg Cys Leu Gly Gln Lys Met
 20 25 30
 Ser Leu Lys Leu Pro Ser Pro Leu Ser Pro Gln Asp Val Leu Glu Ser
 35 40 45
 Lys Asn Ser Thr Ile Lys Asp Leu Gln Tyr Glu Leu Ala Gln Val Cys
 50 55 60
 Lys Ala His Asn Asp Leu Leu Arg Thr Tyr Glu Ala Lys Leu Leu Ala
 65 70 75 80
 Phe Gly Ile Pro Leu Asp Asn Val Gly Phe Lys Pro Leu Glu Thr Ala

	85	90	95
Val Ile Gly Gln Thr Leu Gly Gln Gly Pro Ala Gly Leu Val Gly Thr			
100	105	110	
Pro Thr			

<210> 2689

<211> 292

<212> PRT

<213> Homo sapiens

<400> 2689

Met Asn Ile His Arg Ala Leu Ala Asp Ile Leu Arg Gln Gln Gly Pro			
1	5	10	15
Ile Pro Ile Ala His Cys Glu Arg Glu Thr Ile Ser Ala Ile Asp Thr			
20	25	30	
Ser Pro Lys Glu Asn Thr Pro Val Arg Ser Ser Ser Lys Asn His Tyr			
35	40	45	
Thr Pro Val Arg Thr Ala Lys Gln Thr Pro Glu Lys Pro Arg Met Asn			
50	55	60	
Asn Ile Leu Thr Ser Ala Thr Glu Pro Tyr Asp Leu Ser Phe Ser Arg			
65	70	75	80
Ser Phe Gln Asn Leu Ala His Leu Pro Pro Ser Tyr Glu Ser Ala Val			
85	90	95	
Lys Thr Asn Pro Ser Lys Tyr Ser Ser Leu Lys Arg Leu Thr Asp Lys			
100	105	110	
Glu Ala Asp Glu Tyr Tyr Met Arg Arg Arg His Leu Pro Asp Leu Ala			
115	120	125	

Ala Arg Gly Thr Leu Pro Leu Asn Val Ile Gln Met Ser Gln Gln Lys

130

135

140

Pro Leu Pro Arg Glu Arg Pro Arg Arg Pro Ile Arg Ala Met Ser Gln

145

150

155

160

Asp Arg Val Leu Ser Pro Asp Arg Gly Leu Pro Asp Glu Phe Ser Met

165

170

175

Pro Tyr Asp Arg Ile Leu Ser Asp Glu Gln Leu Leu Ser Thr Glu Arg

180

185

190

Leu His Ser Gln Asp Pro Leu Leu Ser Pro Glu Arg Thr Ala Phe Pro

195

200

205

Glu Gln Ser Leu Ser Arg Ala Ile Ser His Thr Asp Val Phe Val Ser

210

215

220

Thr Pro Val Leu Asp Arg Tyr Arg Met Ser Lys Met His Ser His Pro

225

230

235

240

Ser Ala Ser Asn Asn Ser Tyr Ala Thr Leu Gly Gln Ser Gln Thr Ala

245

250

255

Ala Lys Arg His Ala Phe Ala Ser Arg Arg His Asn Thr Val Glu Gln

260

265

270

Leu His Tyr Ile Pro Gly His His Thr Cys Tyr Thr Ala Ser Lys Thr

275

280

285

Glu Val Thr Val

290

<210> 2690

<211> 453

<212> PRT

<213> Homo sapiens

<400> 2690

Met Gly Ser Val Leu Gly Leu Cys Ser Met Ala Ser Trp Ile Pro Cys

1 5 10 15

Leu Cys Gly Ser Ala Pro Cys Leu Leu Cys Arg Cys Cys Pro Ser Gly

20 25 30

Asn Asn Ser Thr Val Thr Arg Leu Ile Tyr Ala Leu Phe Leu Leu Val

35 40 45

Gly Val Cys Val Ala Cys Val Met Leu Ile Pro Gly Met Glu Glu Gln

50 55 60

Leu Asn Lys Ile Pro Gly Phe Cys Glu Asn Glu Lys Gly Val Val Pro

65 70 75 80

Cys Asn Ile Leu Val Gly Tyr Lys Ala Val Tyr Arg Leu Cys Phe Gly

85 90 95

Leu Ala Met Phe Tyr Leu Leu Leu Ser Leu Leu Met Ile Lys Val Lys

100 105 110

Ser Ser Ser Asp Pro Arg Ala Ala Val His Asn Gly Phe Trp Phe Phe

115 120 125

Lys Phe Ala Ala Ala Ile Ala Ile Ile Ile Gly Ala Phe Phe Ile Pro

130 135 140

Glu Gly Thr Phe Thr Thr Val Trp Phe Tyr Val Gly Met Ala Gly Ala

145 150 155 160

Phe Cys Phe Ile Leu Ile Gln Leu Val Leu Leu Ile Asp Phe Ala His

165 170 175

Ser Trp Asn Glu Ser Trp Val Glu Lys Met Glu Glu Gly Asn Ser Arg

180 185 190

Cys Trp Tyr Ala Ala Leu Leu Ser Ala Thr Ala Leu Asn Tyr Leu Leu

195 200 205

Ser Leu Val Ala Ile Val Leu Phe Phe Val Tyr Tyr Thr His Pro Ala

210 215 220

Ser Cys Ser Glu Asn Lys Ala Phe Ile Ser Val Asn Met Leu Leu Cys
225 230 235 240
Val Gly Ala Ser Val Met Ser Ile Leu Pro Lys Ile Gln Glu Ser Gln
245 250 255
Pro Arg Ser Gly Leu Leu Gln Ser Ser Val Ile Thr Val Tyr Thr Met
260 265 270
Tyr Leu Thr Trp Ser Ala Met Thr Asn Glu Pro Glu Thr Asn Cys Asn
275 280 285
Pro Ser Leu Leu Ser Ile Ile Gly Tyr Asn Thr Thr Ser Thr Val Pro
290 295 300
Lys Glu Gly Gln Ser Val Gln Trp Trp His Ala Gln Gly Ile Ile Gly
305 310 315 320
Leu Ile Leu Phe Leu Leu Cys Val Phe Tyr Ser Ser Ile Arg Thr Ser
325 330 335
Asn Asn Ser Gln Val Asn Lys Leu Thr Leu Thr Ser Asp Glu Ser Thr
340 345 350
Leu Ile Glu Asp Gly Gly Ala Arg Ser Asp Gly Ser Leu Glu Asp Gly
355 360 365
Asp Asp Val His Arg Ala Val Asp Asn Glu Arg Asp Gly Val Thr Tyr
370 375 380
Ser Tyr Ser Phe Phe His Phe Met Leu Phe Leu Ala Ser Leu Tyr Ile
385 390 395 400
Met Met Thr Leu Thr Asn Trp Tyr Arg Tyr Glu Pro Ser Arg Glu Met
405 410 415
Lys Ser Gln Trp Thr Ala Val Trp Val Lys Ile Ser Ser Ser Trp Ile
420 425 430
Gly Ile Val Leu Tyr Val Trp Thr Leu Val Ala Pro Leu Val Leu Thr
435 440 445
Asn Arg Asp Phe Asp

450

<210> 2691

<211> 156

<212> PRT

<213> Homo sapiens

<400> 2691

Met Gly Pro Gly Leu Arg Leu Val Thr Gly Gly Gly Cys Arg Arg Gly

1 5 10 15

Pro Arg Glu Gly Gly Ala Gly Ala Arg Arg Glu Ala Thr Pro Thr Ala

20 25 30

Ala Pro Gly Gly Ala Arg Pro Ala Ala Ala Gly Arg Gly Gly Ala Ala

35 40 45

Ala Ala Ala Ala Pro Gly His His Arg Ser Leu Arg Gly Asp Val Thr

50 55 60

Ala Ala Gly Pro Pro Ala Pro Gly Ala Gly Trp Trp Arg Glu Arg Leu

65 70 75 80

Ser Gln Thr Trp Ser Ala Pro Pro Ala Gly Cys Leu Arg Gln Arg Arg

85 90 95

Leu Ser Lys Gly Cys Trp Arg Trp Ser Cys Gly Ala Leu Thr Ile Pro

100 105 110

Glu Gln Asn Thr Leu Thr Ser Leu Pro Pro Gln Gly Arg Trp Leu Asp

115 120 125

Ser Glu Gln Leu Pro Ser Val Lys Gly Pro Val Phe Thr Gly Ser Gly

130 135 140

Trp Tyr Leu Ala Leu Ser Leu Glu Trp Gln Leu Cys

145 150 155

<210> 2692

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2692

Met Phe Ile Phe Phe Phe Leu Ser Leu Ser Pro Lys Leu Glu Cys Ser

1 5 10 15

Gly Ala Ile Leu Ala His Phe Asn Leu Cys Leu Leu Gly Ser Ser Asp

20 25 30

Ser Pro Ala Ser Ala Ser Arg Val Ala Gly Ile Thr Gly Met His His

35 40 45

Arg Val Arg Leu Ile Phe Val Phe Leu Val Asp Thr Val Tyr Tyr Val

50 55 60

Gly Gln Ala Asp Leu Glu Phe Leu Thr Ser Asp Asp Leu Pro Ala Ser

65 70 75 80

Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Cys Thr Trp Ala

85 90 95

Phe Phe Phe Phe Phe Phe Phe Leu Arg Gln Ser Phe Ile Val Ile Glu

100 105 110

Ala Gly Val Gln Trp Arg Asp Leu Ser Ser Leu Gln Leu Pro Pro Pro

115 120 125

Gly Phe Lys Pro Phe Ser Cys Leu Gly Leu Pro Ser Ser Trp Asp

130 135 140

<210> 2693

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2693

Met	Ile	Ser	Ala	His	Cys	Asn	Leu	His	Phe	Leu	Gly	Ser	Ser	Asp	Ser
1				5					10					15	
Pro	Thr	Ser	Thr	Tyr	Gln	Val	Ala	Gly	Ile	Thr	Gly	Ala	Arg	His	His
			20					25					30		
Ala	Gln	Leu	Ile	Leu	Val	Val	Leu	Val	Glu	Met	Gly	Phe	His	His	Val
		35					40					45			
Gly	Gln	Ala	Gly	Leu	Glu	Leu	Leu	Thr	Ser	Ser	Asp	Pro	Pro	Arg	Leu
	50					55					60				
Gly	Leu	Pro	Lys	Cys	Trp	Asp	Tyr	Arg	Cys	Glu	Pro	Leu	Cys	Pro	Asp
65				70					75					80	
Leu	His	Phe	Val	Cys	Ile	His	Leu	Tyr	Ser	Leu	Asn	Leu	Leu	Gln	Gly
				85					90					95	
Leu	Phe	Ile	His	Val	Cys	Leu	Leu	Phe	Arg	Leu	Ser	Ile	Val	Ala	
				100					105					110	

<210> 2694

<211> 185

<212> PRT

<213> Homo sapiens

<400> 2694

Met	Thr	Lys	Tyr	Lys	Pro	Glu	Ser	Glu	Glu	Leu	Thr	Ala	Glu	Arg	Ile
1				5						10				15	

Thr Glu Phe Cys His Arg Phe Leu Glu Gly Lys Ile Lys Pro His Leu
20 25 30
Met Ser Gln Glu Leu Pro Glu Asp Trp Asp Lys Gln Pro Val Lys Val
35 40 45
Leu Val Gly Lys Asn Phe Glu Asp Val Ala Phe Asp Glu Lys Lys Asn
50 55 60
Val Phe Val Glu Phe Tyr Ala Pro Trp Cys Gly His Cys Lys Gln Leu
65 70 75 80
Ala Pro Ile Trp Asp Lys Leu Gly Glu Thr Tyr Lys Asp His Glu Asn
85 90 95
Ile Val Ile Ala Lys Met Asp Ser Thr Ala Asn Glu Val Glu Ala Val
100 105 110
Lys Val His Ser Phe Pro Thr Leu Lys Phe Phe Pro Ala Ser Ala Asp
115 120 125
Arg Thr Val Ile Asp Tyr Asn Gly Glu Arg Thr Leu Asp Gly Phe Lys
130 135 140
Lys Phe Leu Glu Ser Gly Gly Gln Asp Gly Ala Gly Asp Asp Asp Asp
145 150 155 160
Leu Glu Asp Leu Glu Glu Ala Glu Glu Pro Asp Met Glu Glu Asp Asp
165 170 175
Asp Gln Lys Ala Val Lys Asp Glu Leu
180 185

<210> 2695

<211> 462

<212> PRT

<213> Homo sapiens

<400> 2695

Met Gly Lys Glu Lys Thr His Ile Asn Ile Val Val Ile Gly His Val

1 5 10 15

Asp Ser Gly Lys Ser Thr Thr Thr Gly His Leu Ile Tyr Lys Cys Gly

20 25 30

Gly Ile Asp Lys Arg Thr Ile Glu Lys Phe Glu Lys Glu Ala Ala Glu

35 40 45

Met Gly Lys Gly Ser Phe Lys Tyr Ala Trp Val Leu Asp Lys Leu Lys

50 55 60

Ala Glu Arg Glu Arg Gly Ile Thr Ile Asp Ile Ser Leu Trp Lys Phe

65 70 75 80

Glu Thr Ser Lys Tyr Tyr Val Thr Ile Ile Asp Ala Pro Gly His Arg

85 90 95

Asp Phe Ile Lys Asn Met Ile Thr Gly Thr Ser Gln Ala Asp Cys Ala

100 105 110

Val Leu Ile Val Ala Ala Gly Val Gly Glu Phe Glu Ala Gly Ile Ser

115 120 125

Lys Asn Gly Gln Thr Arg Glu His Ala Leu Leu Ala Tyr Thr Leu Gly

130 135 140

Val Lys Gln Leu Ile Val Gly Val Asn Lys Met Asp Ser Thr Glu Pro

145 150 155 160

Pro Tyr Ser Gln Lys Arg Tyr Glu Glu Ile Val Lys Glu Val Ser Thr

165 170 175

Tyr Ile Lys Lys Ile Gly Tyr Asn Pro Asp Thr Val Ala Phe Val Pro

180 185 190

Ile Ser Gly Trp Asn Gly Asp Asn Met Leu Glu Pro Ser Ala Asn Met

195 200 205

Pro Trp Phe Lys Gly Trp Lys Val Thr Arg Lys Asp Gly Asn Ala Ser

210 215 220

Gly Thr Thr Leu Leu Glu Ala Leu Asp Cys Ile Leu Pro Pro Thr Arg
225 230 235 240
Pro Thr Asp Lys Pro Leu Arg Leu Pro Leu Gln Asp Val Tyr Lys Ile
245 250 255
Gly Gly Ile Gly Thr Val Pro Val Gly Arg Val Glu Thr Gly Val Leu
260 265 270
Lys Pro Gly Met Val Val Thr Phe Ala Pro Val Asn Val Thr Thr Glu
275 280 285
Val Lys Ser Val Glu Met His His Glu Ala Leu Ser Glu Ala Leu Pro
290 295 300
Gly Asp Asn Val Gly Phe Asn Val Lys Asn Val Ser Val Lys Asp Val
305 310 315 320
Arg Arg Gly Asn Val Ala Gly Asp Ser Lys Asn Asp Pro Pro Met Glu
325 330 335
Ala Ala Gly Phe Thr Ala Gln Val Ile Ile Leu Asn His Pro Gly Gln
340 345 350
Ile Ser Ala Gly Tyr Ala Pro Val Leu Asp Cys His Thr Ala His Ile
355 360 365
Ala Cys Lys Phe Ala Glu Leu Lys Glu Lys Ile Asp Arg Arg Ser Gly
370 375 380
Lys Lys Leu Glu Asp Gly Pro Lys Phe Leu Lys Ser Gly Asp Ala Ala
385 390 395 400
Ile Val Asp Met Val Pro Gly Lys Pro Met Cys Val Glu Ser Phe Ser
405 410 415
Asp Tyr Pro Pro Leu Gly Arg Phe Ala Val Arg Asp Met Arg Gln Thr
420 425 430
Val Ala Val Gly Val Ile Lys Ala Val Asp Lys Lys Ala Ala Gly Ala
435 440 445
Gly Lys Val Thr Lys Ser Ala Gln Lys Ala Gln Lys Ala Lys

450

455

460

<210> 2696

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2696

Met Thr Trp Glu Arg Gly Leu Lys Cys Arg Phe Leu Gly His Arg Thr

1

5

10

15

Glu His Leu Thr Ser Phe Leu Gly Thr Leu Glu Gln Gly Ser Pro Trp

20

25

30

Gly His Ser Leu Arg Val Leu Glu Leu Glu Glu Gln Glu His Met Ser

35

40

45

Arg Thr Lys Ala Glu Arg Cys Pro Ser His Cys Lys Gln Pro Gly Thr

50

55

60

Ala Ser His Ile Pro Thr Gly Ala Lys Ala Lys Ala Cys Glu Pro Gly

65

70

75

80

Ala Ala Thr Leu Gln Glu Ser Gly Ser Pro Val His Arg Asp Ser Ala

85

90

95

Pro Arg Gly Asp Ala Thr Ser Ser Arg Val Trp Gly Gln Arg Asp Cys

100

105

110

Trp Gly Gly Arg Arg Asp Arg Leu His Leu His Pro Arg Gln Gly Thr

115

120

125

Pro Leu Gly Glu Arg Pro Val Cys Cys Thr Val Asp Met Leu Lys Leu

130

135

140

Leu Phe Ala His Gln Arg Glu Thr Lys Gly His Arg Gly Ala Val Gly

145

150

155

160

Trp Arg Glu Ala Gly Thr Gly Asn Glu Thr Thr Asn Ser Pro Arg Cys
 165 170 175

<210> 2697

<211> 118

<212> PRT

<213> Homo sapiens

<400> 2697

Met His Arg Ser Pro Met Ala Gly Ala Val Gln Trp Cys Gln Glu Pro
 1 5 10 15
 Val Arg Val Phe Thr Gln Ser Ser Leu Gln Ser Ile Ser Trp Ala Ala
 20 25 30
 His Val Arg Ala Thr Phe Lys Trp Lys Val Trp Lys Gly Met Pro Leu
 35 40 45
 Ser Cys Glu Val Gly His Gly Arg Leu Gly Asp Asp Lys Gly Pro Gly
 50 55 60
 Glu Leu Arg Arg Arg Met Glu Asp Arg Glu Asp Pro Pro Glu Leu Leu
 65 70 75 80
 Ala Leu Leu Gly Gly Phe Arg Ser Val Ala Leu Pro Arg Thr Pro Leu
 85 90 95
 His Pro Gly Leu Ala Pro Ser Leu Ser Gln Cys Thr Glu Leu Pro Leu
 100 105 110
 Lys Gly Asn Cys Met Phe
 115

<210> 2698

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2698

Met Glu Leu Ser Glu Ser Val Gln Lys Gly Phe Gln Met Leu Ala Asp

1 5 10 15

Pro Arg Ser Phe Asp Ser Asn Ala Phe Thr Leu Leu Leu Arg Ala Ala

20 25 30

Phe Gln Ser Leu Leu Asp Ala Gln Ala Asp Glu Ala Val Leu Asp His

35 40 45

Pro Asp Leu Lys His Ile Asp Pro Val Val Leu Lys His Cys His Ala

50 55 60

Ala Ala Ala Thr Tyr Ile Leu Glu Ala Gly Lys His Arg Ala Asp Lys

65 70 75 80

Ser Thr Leu Ser Thr Tyr Leu Glu Asp Cys Lys Phe Asp Arg Glu Arg

85 90 95

Ile Glu Leu Phe Cys Thr Glu Tyr Gln Val Thr Tyr Phe Lys Ile Phe

100 105 110

Asn

<210> 2699

<211> 431

<212> PRT

<213> Homo sapiens

<400> 2699

Met Glu Arg Arg Arg Ile Thr Ser Ala Ala Arg Arg Ser Tyr Val Ser
 1 5 10 15
 Ser Gly Glu Met Met Val Gly Gly Leu Ala Pro Gly Arg Arg Leu Gly
 20 25 30
 Pro Gly Thr Arg Leu Ser Leu Ala Arg Met Pro Pro Pro Leu Pro Thr
 35 40 45
 Arg Val Asp Phe Ser Leu Ala Gly Ala Leu Asn Ala Gly Phe Lys Glu
 50 55 60
 Thr Arg Ala Ser Glu Arg Ala Glu Met Met Glu Leu Asn Asp Arg Phe
 65 70 75 80
 Ala Ser Tyr Ile Glu Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Ala
 85 90 95
 Leu Ala Ala Glu Leu Asn Gln Leu Arg Ala Lys Glu Pro Thr Lys Leu
 100 105 110
 Ala Asp Val Tyr Gln Ala Glu Leu Arg Glu Leu Arg Leu Arg Leu Asp
 115 120 125
 Gln Leu Thr Ala Asn Ser Ala Arg Leu Glu Val Glu Arg Asp Asn Leu
 130 135 140
 Ala Gln Asp Leu Ala Thr Val Arg Gln Lys Leu Gln Asp Glu Thr Asn
 145 150 155 160
 Leu Arg Leu Glu Ala Glu Asn Asn Leu Ala Ala Tyr Arg Gln Glu Ala
 165 170 175
 Asp Glu Ala Thr Leu Ala Arg Leu Asp Leu Glu Arg Lys Ile Glu Ser
 180 185 190
 Leu Glu Glu Glu Ile Arg Phe Leu Arg Lys Ile His Glu Glu Glu Val
 195 200 205
 Arg Glu Leu Gln Glu Gln Leu Ala Arg Gln Gln Val His Val Glu Leu
 210 215 220
 Asp Val Ala Lys Pro Asp Leu Thr Ala Ala Leu Lys Glu Ile Arg Thr

225	230	235	240
Gln Tyr Glu Ala Met	Ala Ser Ser Asn Met	His Glu Ala Glu Glu	Trp
245	250	255	
Tyr Arg Ser Lys Phe	Ala Asp Leu Thr Asp	Ala Ala Ala Arg	Asn Ala
260	265	270	
Glu Leu Leu Arg Gln	Ala Lys His Glu Ala	Asn Asp Tyr Arg	Arg Gln
275	280	285	
Leu Gln Ser Leu Thr	Cys Asp Leu Glu Ser	Leu Arg Gly Thr	Asn Glu
290	295	300	
Ser Leu Glu Arg Gln	Met Arg Glu Gln Glu	Glu Arg His Val	Arg Glu
305	310	315	320
Ala Ala Ser Tyr Gln	Glu Ala Leu Ala Arg	Leu Glu Glu Glu	Gly Gln
325	330	335	
Ser Leu Lys Asp Glu	Met Ala Arg His	Leu Gln Glu Tyr	Gln Asp Leu
340	345	350	
Leu Asn Val Lys Leu	Ala Leu Asp Ile	Glu Ile Ala Thr	Tyr Arg Lys
355	360	365	
Leu Leu Glu Gly Glu	Glu Asn Arg Ile	Thr Ile Pro Val	Gln Thr Phe
370	375	380	
Ser Asn Leu Gln Ile	Arg Gly Gly Lys	Ser Thr Lys Asp	Gly Glu Asn
385	390	395	400
His Lys Val Thr Arg	Tyr Leu Lys Ser	Leu Thr Ile Arg	Val Ile Pro
405	410	415	
Ile Gln Ala His Gln	Ile Val Asn Gly	Val Pro Pro Ala	Arg Gly
420	425	430	

<210> 2700

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2700

Met Tyr Ser Glu Ile Gln Arg Glu Arg Ala Asp Ile Gly Gly Leu Val

1 5 10 15

Ala Arg Pro Glu Tyr Arg Glu Trp Asn Pro Glu Leu Ile Lys Pro Lys

20 25 30

Lys Leu Leu Asn Pro Val Lys Ala Ser Arg Ser His Gln Glu Leu His

35 40 45

Arg Glu Leu Leu Met Asn His Arg Arg Gly Leu Gly Val Asp Ser Lys

50 55 60

Pro Glu Leu Gln Arg Val Leu Glu His Arg Arg Arg Asn Gln Leu Ile

65 70 75 80

Lys Lys Lys Lys Glu Glu Leu Glu Ala Lys Arg Leu Gln Cys Pro Phe

85 90 95

Glu Gln Glu Leu Leu Arg Arg Gln Gln Arg Leu Asn Gln Leu Glu Lys

100 105 110

Pro Pro Glu Lys Glu Glu Asp His Ala Pro Glu Phe Ile Lys Val Arg

115 120 125

Glu Asn Leu Arg Arg Ile Ala Thr Leu Thr Ser Glu Glu Arg Glu Leu

130 135 140

<210> 2701

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2701

Met Glu Glu Ala Gly Leu Cys Gly Leu Arg Glu Lys Ala Asp Met Leu

1 5 10 15

Cys Asn Ser Glu Ser His Asp Ile Leu Gln His Gln Asp Ser Asn Cys

20 25 30

Ser Ala Thr Ser Asn Lys His Leu Leu Glu Asp Glu Glu Gly Arg Asp

35 40 45

Phe Ile Thr Lys Asn Arg Ser Trp Val Ser Pro Val His Cys Thr Gln

50 55 60

Glu Ser Arg Arg Glu Leu Pro Glu Gln Glu Val Ala Pro Pro Ser Gly

65 70 75 80

Gln Gln Ala Leu Gln Cys Asn Arg Asn Lys Glu Lys Val Leu Glu Arg

85 90 95

Gln Gly Leu Ser Leu Ser Pro Arg Leu Gly Arg Gly Gly Thr Phe Met

100 105 110

Gly His Gly Ser Leu Lys Leu Pro Glu Leu Val Ile Leu Ser Leu Gln

115 120 125

Thr Leu Glu

130

<210> 2702

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2702

Met Ser Ala Glu Val Lys Val Thr Gly Gln Asn Gln Glu Gln Phe Leu

1 5 10 15

Leu Leu Ala Lys Ser Ala Met Gly Ala Ala Leu Ala Thr Leu Ile His
 20 25 30
 Gln Val Leu Glu Ala Pro Gly Val Tyr Val Phe Gly Glu Leu Leu Asp
 35 40 45
 Met Pro Asn Val Arg Glu Leu Thr Cys Phe Val Ala Pro Trp Thr Ser
 50 55 60
 Ala Thr Ser Gly Ser Arg Leu Thr Thr Ala Ser Gly Gly Thr Ser Ser
 65 70 75 80
 Ala Arg Thr Ser Val Pro Leu Pro Glu Pro Cys Arg Asn Gly Val Trp
 85 90 95
 Ala Val Arg Ser Cys Cys Gln Ala Leu Arg Ser Arg
 100 105

<210> 2703

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2703

Met Glu Asp Asp Gly Ser Leu Leu Pro Glu Asp Glu Leu Leu Ala Asp
 1 5 10 15
 Ala Phe Leu Leu Glu Asp Glu Arg Asp Glu Leu Glu Asp Pro Glu Phe
 20 25 30
 Asp Ile Lys Cys Leu Leu Gln Glu Ala Glu Asp Asp Val Asp Pro Gly
 35 40 45
 His Ser Ser Ser Val Lys Glu Leu Asp Thr Asp Ala Asp Lys Leu Lys
 50 55 60
 Lys Lys Thr Ala Glu Asp Arg Thr Gln Ala Phe His Leu Arg Gln Asn

65 70 75 80
 Leu Ser Ala Leu Asp Lys Met His Glu Glu Gln Glu Leu Phe Thr Glu
 85 90 95
 Lys Met Arg Gly Glu Leu Arg Ala Cys Arg Gln Arg Arg Asp Leu Ile
 100 105 110
 Asp Lys Gln Gln Glu Ala Val Ala Ala Glu Ile Ala Thr Glu Glu Glu
 115 120 125
 Ala Gly Asn Met Ala Ala Val Gly Arg Leu Gln Ala Val Ser Arg Arg
 130 135 140
 Leu Phe Ala Glu Leu Glu Asn Glu Arg Asp Leu Gln Ser Arg Thr Glu
 145 150 155 160
 Ala Val Leu Lys Glu Ser Glu
 165

<210> 2704

<211> 172

<212> PRT

<213> Homo sapiens

<400> 2704

Met Gln Arg Gln Leu Thr Gly Ser Leu Arg Ile Cys Thr Asp Phe Leu
 1 5 10 15
 Ser Gly Ala Phe Lys Leu Thr Lys His Gln Phe Ser Val Ser Thr Thr
 20 25 30
 Arg Pro Ser Gly Arg Val Arg Ser Leu Gly Ser Ala Lys Ala Gly Pro
 35 40 45
 Trp Arg Ala Gly Glu Arg Glu Leu Gly Arg Leu Ser Leu Leu Arg Ala
 50 55 60

Gln Gly Asp Arg Ala Glu Ser Gly Ala Val Ser Cys Thr Gln Lys Gly
 65 70 75 80
 Ser Ala Phe Arg Gly Lys Gly Ser Ser Pro Arg Arg Arg Asp Val Phe
 85 90 95
 Leu Met Ser Ala Glu Arg Gly Arg Cys Gly Lys Ser Tyr Pro Gln Met
 100 105 110
 Arg Glu Gly Arg Gly Arg Glu Lys Gly Asn Arg Val Leu Leu Ala Phe
 115 120 125
 Arg Gly Arg Gly Ser Gly Thr Asp Arg Val Tyr Pro Arg Glu Ala Ala
 130 135 140
 Thr Gln His Pro Gly Pro Gly Arg Ala Gly Ala Glu Arg Ala Phe Ala
 145 150 155 160
 Val Val Leu Cys Cys Lys Thr Ala Arg Glu Glu Gly
 165 170

<210> 2705

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2705

Met Thr Ile Thr Val Leu Ile Ser Ala Ala Gly His Met Val Val Val
 1 5 10 15
 Gly Ile Asp Asp Tyr Leu Leu Leu Leu Pro Ile Leu Tyr Ser Leu Cys
 20 25 30
 Leu Gln Gln Ala Pro Gln Gln Leu Met Val Phe Phe Pro Ser Gly Val
 35 40 45
 Thr Lys Thr Phe Ile Pro Val Gly Ser Gly Ser Phe Val Val Leu Pro

50 55 60
 Gly Leu Gly Cys Cys Ser Phe Pro Leu Thr Leu Ile Thr Gly His Gly
 65 70 75 80
 Asn Thr Lys Arg Cys Pro Asn Gly Ser Pro Val Leu His Glu Tyr Ser
 85 90 95
 Phe Leu Pro Pro Leu Trp Ser Ser Arg Leu Ile Ser Ser
 100 105

<210> 2706

<211> 279

<212> PRT

<213> Homo sapiens

<400> 2706

Met Ala Thr Lys Arg Leu Ala Arg Gln Leu Gly Leu Ile Arg Arg Lys
 1 5 10 15
 Ser Ile Ala Pro Ala Asn Gly Asn Leu Gly Arg Ser Lys Ser Lys Gln
 20 25 30
 Leu Phe Asp Tyr Leu Ile Val Ile Asp Phe Glu Ser Thr Cys Trp Asn
 35 40 45
 Asp Gly Lys His His His Ser Gln Glu Ile Ile Glu Phe Pro Ala Val
 50 55 60
 Leu Leu Asn Thr Ser Thr Gly Gln Ile Asp Ser Glu Phe Gln Ala Tyr
 65 70 75 80
 Val Gln Pro Gln Glu His Pro Ile Leu Ser Glu Phe Cys Met Glu Leu
 85 90 95
 Thr Gly Ile Lys Gln Ala Gln Val Asp Glu Gly Val Pro Leu Lys Ile
 100 105 110

Cys Leu Ser Gln Phe Cys Lys Trp Ile His Lys Ile Gln Gln Gln Lys

115

120

125

Asn Ile Ile Phe Ala Thr Gly Ile Ser Glu Pro Ser Ala Ser Glu Val

130

135

140

Lys Leu Cys Ala Phe Val Thr Trp Ser Asp Trp Asp Leu Gly Val Cys

145

150

155

160

Leu Glu Tyr Glu Cys Lys Arg Lys Gln Leu Leu Lys Pro Val Phe Leu

165

170

175

Asn Ser Trp Ile Asp Leu Arg Ala Thr Tyr Lys Leu Phe Tyr Arg Arg

180

185

190

Lys Pro Lys Gly Leu Ser Gly Ala Leu Gln Glu Val Gly Ile Glu Phe

195

200

205

Ser Gly Arg Glu His Ser Gly Leu Asp Asp Ser Arg Asn Thr Ala Leu

210

215

220

Leu Ala Trp Lys Met Ile Arg Asp Gly Cys Val Met Lys Ile Thr Arg

225

230

235

240

Ser Leu Asn Lys Val Val Pro Lys Gly Ile His Ala Val Pro Lys Leu

245

250

255

Ser His Gln Gln Lys Asn Asn Pro Ser Leu Phe Met Lys Lys Ser Leu

260

265

270

His His Leu Ile Ala Pro Gln

275

<210> 2707

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2707

Met Val Ala Glu Gly Gly Glu Ser Cys Glu Ile Ile Phe Lys Ile Ile
 1 5 10 15
 Ala Arg Gly Pro Leu Tyr Cys Asn Gln Leu Ala Gln Glu Arg Arg Ser
 20 25 30
 Gly Ser Pro Glu Leu Tyr Thr Tyr Cys Asn Gly Tyr Val Arg Ser Pro
 35 40 45
 Glu Asn Leu Trp Gly Pro Asn Pro Ser His Gln Asn Ile Ser Ser Ser
 50 55 60
 Ile Glu Asp Ser Asp Thr Lys Phe Ser Gln Ser Ile Cys Leu Cys Asn
 65 70 75 80
 Phe Thr Phe Asn Phe Ser Leu His Tyr Asn Trp Glu Asn Glu Ala Pro
 85 90 95
 Lys Glu Ala Gly Thr Asp Pro Asp Leu Arg Arg Trp Ala Gly Ser Arg
 100 105 110
 Ala Leu Glu Arg Ala Pro Ala Ser
 115 120

<210> 2708

<211> 299

<212> PRT

<213> Homo sapiens

<400> 2708

Met Glu Glu Leu Leu Pro Asp Gly Gln Ile Trp Ala Asn Met Asp Pro
 1 5 10 15
 Glu Glu Arg Met Leu Ala Ala Ala Thr Ala Phe Thr His Ile Arg Ala
 20 25 30

Gly Gln Gly Glu Gly Asp Val Arg Arg Glu Ala Gln Ser Ile Gln Tyr
 35 40 45
 Asp Pro Tyr Ser Lys Ala Ser Val Ala Pro Gly Lys Arg Pro Ala Leu
 50 55 60
 Pro Val Gln Leu Gln Tyr Pro His Val Glu Ser Asn Val Pro Ser Glu
 65 70 75 80
 Thr Val Ser Glu Ala Ser Gln Arg Leu Arg Lys Pro Val Met Lys Arg
 85 90 95
 Lys Val Leu Arg Arg Lys Pro Asp Gly Glu Val Leu Val Thr Asp Glu
 100 105 110
 Ser Ile Ile Ser Glu Ser Glu Ser Gly Thr Glu Asn Asp Gln Asp Leu
 115 120 125
 Trp Asp Leu Arg Gln Arg Leu Met Asn Val Gln Phe Gln Glu Asp Lys
 130 135 140
 Glu Ser Ser Phe Asp Val Ser Gln Lys Phe Asn Leu Pro His Glu Tyr
 145 150 155 160
 Gln Gly Ile Ser Gln Asp Gln Leu Ile Cys Ser Leu Gln Arg Glu Gly
 165 170 175
 Met Gly Ser Pro Ala Tyr Glu Gln Asp Leu Ile Val Ala Ser Arg Pro
 180 185 190
 Lys Ser Phe Ile Leu Pro Lys Leu Asp Gln Leu Ser Arg Asn Arg Gly
 195 200 205
 Lys Thr Asp Arg Val Ala Arg Tyr Phe Glu Tyr Lys Arg Asp Trp Asp
 210 215 220
 Ser Ile Arg Leu Pro Gly Glu Asp His Arg Lys Glu Leu Arg Trp Gly
 225 230 235 240
 Val Arg Glu Gln Met Leu Cys Arg Ala Glu Pro Gln Ser Lys Pro Gln
 245 250 255
 His Ile Tyr Val Pro Asn Asn Tyr Leu Val Pro Thr Glu Lys Lys Arg

260 265 270
Ser Ala Leu Arg Trp Gly Val Arg Cys Asp Leu Ala Asn Gly Val Ile
275 280 285
Pro Arg Lys Leu Pro Phe Pro Leu Ser Pro Ser
290 295

<210> 2709

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2709

Met Leu Glu Lys Leu Tyr Val Tyr Ile Tyr Met Phe Met Tyr Ile Phe
1 5 10 15
Ile Phe Ile Tyr Ile Phe Ile Tyr Ile Tyr Ile Tyr Val Tyr Val Tyr
20 25 30
Ile Tyr Leu Tyr Ile Tyr Phe Tyr Ile Phe Thr Tyr Ile Tyr Leu Tyr
35 40 45
Ile Phe Ile Tyr Ile Tyr Ile Cys Leu Tyr Ile Tyr Leu Tyr Ile Tyr
50 55 60
Leu Tyr Ile Phe Thr Tyr Ile Tyr Ile Tyr Leu His Ile Phe Ile Tyr
65 70 75 80
Leu His Ile Phe Ile Tyr Ile Cys Ile Cys Leu Tyr Ile Phe Ile Tyr
85 90 95
Val Phe Ile Tyr Ile Asn Ile Tyr Met Arg Gly Leu Gln Asn Ile His
100 105 110
Gly Asn Ile Glu Leu Lys Ala Thr Asn Lys Lys Tyr Lys Phe Tyr Phe
115 120 125

Ser Glu

130

<210> 2710

<211> 719

<212> PRT

<213> Homo sapiens

<400> 2710

Met Ala Ser Ser Ser Gly Arg Val Thr Ile Gln Leu Val Asp Glu Glu

1 5 10 15

Ala Gly Val Gly Ala Gly Arg Leu Gln Leu Phe Arg Gly Gln Ser Tyr

20 25 30

Glu Ala Ile Arg Ala Ala Cys Leu Asp Ser Gly Ile Leu Phe Arg Asp

35 40 45

Pro Tyr Phe Pro Ala Gly Pro Asp Ala Leu Gly Tyr Asp Gln Leu Gly

50 55 60

Pro Asp Ser Glu Lys Ala Lys Gly Val Lys Trp Met Arg Pro His Glu

65 70 75 80

Phe Cys Ala Glu Pro Lys Phe Ile Cys Glu Asp Met Ser Arg Thr Asp

85 90 95

Val Cys Gln Gly Ser Leu Gly Asn Cys Trp Phe Leu Ala Ala Ala Ala

100 105 110

Ser Leu Thr Leu Tyr Pro Arg Leu Leu Arg Arg Val Val Pro Pro Gly

115 120 125

Gln Asp Phe Gln His Gly Tyr Ala Gly Val Phe His Phe Gln Leu Trp

130 135 140

Gln Phe Gly Arg Trp Met Asp Val Val Val Asp Asp Arg Leu Pro Val

145	150	155	160
Arg Glu Gly Lys Leu Met Phe Val Arg Ser Glu Gln Arg Asn Glu Phe			
	165	170	175
Trp Ala Pro Leu Leu Glu Lys Ala Tyr Ala Lys Leu His Gly Ser Tyr			
	180	185	190
Glu Val Met Arg Gly Gly His Met Asn Glu Ala Phe Val Asp Phe Thr			
	195	200	205
Gly Gly Val Gly Glu Val Leu Tyr Leu Arg Gln Asn Ser Met Gly Leu			
	210	215	220
Phe Ser Ala Leu Arg His Ala Leu Ala Lys Glu Ser Leu Val Gly Ala			
225	230	235	240
Thr Ala Leu Ser Asp Arg Gly Glu Tyr Arg Thr Glu Glu Gly Leu Val			
	245	250	255
Lys Gly His Ala Tyr Ser Ile Thr Gly Thr His Lys Val Phe Leu Gly			
	260	265	270
Phe Thr Lys Val Arg Leu Leu Arg Leu Arg Asn Pro Trp Gly Cys Val			
	275	280	285
Glu Trp Thr Gly Ala Trp Ser Asp Ser Cys Pro Arg Trp Asp Thr Leu			
	290	295	300
Pro Thr Glu Cys Arg Asp Ala Leu Leu Val Lys Lys Glu Asp Gly Glu			
305	310	315	320
Phe Trp Met Glu Leu Arg Asp Phe Leu Leu His Phe Asp Thr Val Gln			
	325	330	335
Ile Cys Ser Leu Ser Pro Glu Val Leu Gly Pro Ser Pro Glu Gly Gly			
	340	345	350
Gly Trp His Val His Thr Phe Gln Gly Arg Trp Val Arg Gly Phe Asn			
	355	360	365
Ser Gly Gly Ser Gln Pro Asn Ala Glu Thr Phe Trp Thr Asn Pro Gln			
	370	375	380

Phe Arg Leu Thr Leu Leu Glu Pro Asp Glu Glu Asp Asp Glu Asp Glu
 385 390 395 400
 Glu Gly Pro Trp Gly Gly Trp Gly Ala Ala Gly Ala Arg Gly Pro Ala
 405 410 415
 Arg Gly Gly Arg Thr Pro Lys Cys Thr Val Leu Leu Ser Leu Ile Gln
 420 425 430
 Arg Asn Arg Arg Arg Leu Arg Ala Lys Gly Leu Thr Tyr Leu Thr Val
 435 440 445
 Gly Phe His Val Phe Gln Ile Pro Glu Glu Leu Leu Gly Leu Trp Asp
 450 455 460
 Ser Pro Arg Ser His Ala Leu Leu Pro Arg Leu Leu Arg Ala Asp Arg
 465 470 475 480
 Ser Pro Leu Ser Ala Arg Arg Asp Val Thr Arg Arg Cys Cys Leu Arg
 485 490 495
 Pro Gly His Tyr Leu Val Val Pro Ser Thr Ala His Ala Gly Asp Glu
 500 505 510
 Ala Asp Phe Thr Leu Arg Val Phe Ser Glu Arg Arg His Thr Ala Val
 515 520 525
 Glu Ile Asp Asp Val Ile Ser Ala Asp Leu Gln Ser Leu Gln Gly Pro
 530 535 540
 Tyr Leu Pro Leu Glu Leu Gly Leu Glu Gln Leu Phe Gln Glu Leu Ala
 545 550 555 560
 Gly Glu Glu Glu Glu Leu Asn Ala Ser Gln Leu Gln Ala Leu Leu Ser
 565 570 575
 Ile Ala Leu Glu Pro Ala Arg Ala His Thr Ser Thr Pro Arg Glu Ile
 580 585 590
 Gly Leu Arg Thr Cys Glu Gln Leu Leu Gln Cys Phe Gly His Gly Gln
 595 600 605
 Ser Leu Ala Leu His His Phe Gln Gln Leu Trp Gly Tyr Leu Leu Glu

610	615	620	
Trp Gln Ala Ile Phe Asn Lys Phe Asp Glu Asp Thr Ser Gly Thr Met			
625	630	635	640
Asn Ser Tyr Glu Leu Arg Leu Ala Leu Asn Ala Ala Gly Phe His Leu			
645	650	655	
Asn Asn Gln Leu Thr Gln Thr Leu Thr Ser Arg Tyr Arg Asp Ser Arg			
660	665	670	
Leu Arg Val Asp Phe Glu Arg Phe Val Ser Cys Val Ala His Leu Thr			
675	680	685	
Cys Ile Phe Cys His Cys Ser Gln His Leu Asp Gly Gly Glu Gly Val			
690	695	700	
Ile Cys Leu Thr His Arg Gln Trp Met Glu Val Ala Thr Phe Ser			
705	710	715	

<210> 2711

<211> 198

<212> PRT

<213> Homo sapiens

<400> 2711

Met Gly Tyr Lys Val Val Pro Leu Cys Met Arg Leu Phe Trp Arg Arg			
1	5	10	15
Leu Ile Thr Gln Gln Ile Ser Val Gly His Leu Gly Leu Ser Asp Pro			
20	25	30	
Phe Tyr Glu Ala Met Val Lys Ser His Ser Val Ala Gln Ala Gly Val			
35	40	45	
Gln Trp His Asp Leu Gly Ser Leu Gln Pro Pro Pro Pro Arg Phe Lys			
50	55	60	

Arg Ser Phe Cys Phe Ser Leu Ser Ser Gly Trp Tyr Tyr Arg Asn Thr
 65 70 75 80
 Pro Pro Cys Leu Ala Asn Ala Ser Leu Ser Ile Asn Glu Asp Val Arg
 85 90 95
 Pro Cys Lys Leu Gln Glu Ser Arg Asp Leu Val Cys Leu Gly His Arg
 100 105 110
 Asp Ile Ser Ala Ala Asp Pro Val Leu Glu Ala Tyr Asn Leu Glu Ser
 115 120 125
 Pro Gln Leu Ser Ser Trp Asn His His Gln Ala Pro Ser Val Gly Phe
 130 135 140
 Leu Trp Arg Leu Lys Val Ser Thr Trp Gln His Lys Val Val Ile Lys
 145 150 155 160
 Asp Ser Gly Val Thr Ala Gln Ala Gln Ile Pro Ala Ala Asn Cys Glu
 165 170 175
 Val Phe Glu Glu Lys Leu Arg Pro Ile Lys Leu Asn Gly Ser Ser Gln
 180 185 190
 Ile Lys Trp Pro Asp Gln
 195

<210> 2712

<211> 269

<212> PRT

<213> Homo sapiens

<400> 2712

Met Glu Gln Ala Val Gln Thr Ala Ser Ala His Leu Pro Ala Pro Ala
 1 5 10 15
 Ala Val Gly Arg Arg Ser Pro Val Ser Thr Arg Pro Leu Pro Ser Ala

20	25	30
Ser Gln Lys Ala Gly Glu Asn Gln Glu His Arg Arg Ala Glu Val His		
35	40	45
Lys Val Ser Arg Pro Glu Asn Glu Gln Leu Arg Asn Asp Asn Lys Arg		
50	55	60
Gln Val Ala Pro Gly Ala Pro Ser Ala Pro Arg Arg Gly Arg Gly Gly		
65	70	75
80		
His Arg Gly Gly Arg Gly Arg Phe Gly Ile Arg Arg Asp Gly Pro Met		
85	90	95
Lys Phe Glu Lys Asp Phe Asp Phe Glu Ser Ala Asn Ala Gln Phe Asn		
100	105	110
Lys Glu Glu Ile Asp Arg Glu Phe His Asn Lys Leu Lys Leu Lys Glu		
115	120	125
Asp Lys Leu Glu Lys Gln Glu Lys Pro Val Asn Gly Glu Asp Lys Gly		
130	135	140
Asp Ser Gly Val Asp Thr Gln Asn Ser Glu Gly Asn Ala Asp Glu Glu		
145	150	155
160		
Asp Pro Leu Gly Pro Asn Cys Tyr Tyr Asp Lys Thr Lys Ser Phe Phe		
165	170	175
Asp Asn Ile Ser Cys Asp Asp Asn Arg Glu Arg Arg Pro Thr Trp Ala		
180	185	190
Glu Glu Arg Arg Leu Asn Ala Glu Thr Phe Gly Ile Pro Leu Arg Pro		
195	200	205
Asn Arg Gly Arg Gly Gly Tyr Arg Gly Arg Gly Gly Leu Gly Phe Arg		
210	215	220
Gly Gly Arg Gly Arg Gly Gly Gly Arg Gly Gly Thr Phe Thr Ala Pro		
225	230	235
240		
Arg Gly Phe Arg Gly Gly Phe Arg Gly Gly Arg Gly Gly Arg Glu Phe		
245	250	255

Ala Asp Phe Glu Tyr Arg Lys Asp Asn Lys Val Ala Ala

260

265

<210> 2713

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2713

Met Pro Pro Arg Ala Pro Glu Arg Ala Ala Ala Gly Gly Gly Lys Arg

1

5

10

15

Arg Gly Arg Pro Gln Ala Gly Ala Arg Trp Leu Ser Pro Gln Pro Gly

20

25

30

Pro Ala Arg Pro Pro Glu Glu Gly Gly Ser Gly Arg Leu Ser Gly Arg

35

40

45

Gly Ser Val Glu Gly Glu Lys Gly Gln Gly Lys Asp Leu Leu Ser Pro

50

55

60

Arg Asp Pro Ala Pro Gly Gln Leu Leu Pro Gly Gly Val Ser Leu Lys

65

70

75

80

Asp Gln Arg Arg Leu Glu Arg Arg Arg Arg Trp Arg Arg Gln Gln Arg

85

90

95

Arg Pro Ala Leu Pro Thr Ser Pro Pro Pro Ser

100

105

<210> 2714

<211> 252

<212> PRT

<213> Homo sapiens

<400> 2714

Met Asp Leu Asp Ser Ser Ala Ala Lys Leu Ala Thr Arg Pro Arg Asn
 1 5 10 15
 Ala His Ser Pro Gly Phe Phe Leu Ser Arg Val Pro Pro Val Arg Asp
 20 25 30
 Pro Thr Gly Asn Arg Thr Val Gln Leu Ile Ser Gln Pro Leu Leu Gly
 35 40 45
 Pro Leu Glu Leu Trp Ile Lys Ala Leu Trp Leu Thr Ala Ser Gln Ile
 50 55 60
 Ser Ala Leu Arg Leu Lys Thr Asp Ala Ala Arg Ser Pro Gly Lys Ala
 65 70 75 80
 Pro Trp Thr Ile Met Asp Ala Glu Leu Arg Val Thr Phe Thr Val Glu
 85 90 95
 Gly Lys Ser Val Pro Phe Leu Ile Asp Met Glu Ala Thr His Ser Thr
 100 105 110
 Leu Pro Ser Phe Gln Gly Pro Val Ser Leu Ala Pro Ile Ala Val Val
 115 120 125
 Gly Ile Asp Gly Gln Ala Ser Glu Pro Leu Lys Ile Pro Pro Leu Trp
 130 135 140
 Cys Gln Leu Arg Gln His Ala Phe Met His Phe Phe Ser Tyr Pro His
 145 150 155 160
 Leu Pro Ser Ser Leu Ile Arg Leu Arg His Phe Asn Lys Leu Ser Ala
 165 170 175
 Ser Leu Val Ile Pro Gly Leu Gln Pro His Leu Thr Ala Val Leu Leu
 180 185 190
 Pro Asn Ser Arg Pro Leu Ser His Pro Pro Phe Val Ser Pro His Leu
 195 200 205

出証特 2 0 0 4 - 3 0 5 9 6 6 1

115

120

<210> 2716

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2716

Met Pro Cys Trp Tyr Arg Val Ser Val Pro Val Cys Leu Ser Thr Leu

1 5 10 15

Leu Gln Ser Asp Ile Trp Ala Val Phe Ser Leu Gly Leu Ser Arg Ser

20 25 30

Leu Pro Ala Gln Val His Leu Trp Met Gln Ala Pro Phe Leu Leu Asp

35 40 45

Glu Ile Leu Arg Val Glu Leu Leu Ser His Arg Trp Ser His Val Cys

50 55 60

Leu Gly Ala Ala Ala Arg Pro Ser Leu Gln Met Val Glu Pro Phe Ala

65 70 75 80

Leu Pro Pro Thr Leu Cys Glu Ser Ser Val Ala Val His Pro Cys Gln

85 90 95

His Leu Val Leu Ser Phe Ser Leu Ile Leu Ala Ile Leu Val Gly Val

100 105 110

<210> 2717

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2717

Met Glu Ser Ser Ser Val Ser Gln Ala Gly Val Gln Trp Leu Asp Leu
 1 5 10 15
 Ser Ser Leu Gln Pro Pro Pro Ser Gly Phe Lys Arg Phe Ser Cys Leu
 20 25 30
 Ser Leu Gln Ser Ser Trp Asp Tyr Arg His Ala Pro Pro Cys Pro Ala
 35 40 45
 Gly Phe Cys Leu Cys Val Glu Thr Gly Phe His His Val Gly Gln Ala
 50 55 60
 Ser Leu Lys Leu Leu Thr Ser Ser Asp Pro Pro Ala Leu Ala Ser Gln
 65 70 75 80
 Ile Ala Gly Ile Thr Gly Met Ile His His Ala Gln Pro Leu Leu Phe
 85 90 95
 Leu Arg Gln Gly Val Thr Leu Leu Pro Arg Leu Glu Cys Ser Ser Ala
 100 105 110
 Ile Leu Ala His Cys Ile Leu Cys Leu Pro Gly Ser Ser Asp Ser Pro
 115 120 125
 Ala Ser Ala Ser Gln Val Ala Gly Thr Thr Gly Val Cys Pro Leu Ile
 130 135 140
 Phe Val Phe Val Val Glu Met Gly Phe His His Val Ala Arg Leu Val
 145 150 155 160
 Phe Asn Ser Ser Pro Gln Val Ile His Pro Pro Trp Pro Pro Lys Val
 165 170 175
 Leu Arg Leu

<210> 2718

<211> 476

<212> PRT

<213> Homo sapiens

<400> 2718

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Lys Gly

1 5 10 15

Val Gln Cys Glu Val Gln Leu Ala Glu Ser Gly Gly Gly Leu Val Gln

20 25 30

Pro Gly Gly Ser Leu Lys Leu Pro Cys Ala Ala Ser Gly Phe Thr Phe

35 40 45

Ser Gly Ser Ala Met His Trp Val Arg Gln Thr Ser Gly Lys Gly Leu

50 55 60

Glu Trp Val Gly His Ile Arg Ser Lys Ala Asn Arg Tyr Ala Thr Ala

65 70 75 80

Tyr Ala Ala Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser

85 90 95

Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr

100 105 110

Ala Val Tyr Tyr Cys Thr Arg His Gly Asn Asp Leu Pro Gly Thr Thr

115 120 125

Ala Leu Leu Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val

130 135 140

Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser

145 150 155 160

Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys

165 170 175

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu

180 185 190

Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
 195 200 205
 Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
 210 215 220
 Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
 225 230 235 240
 Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro
 245 250 255
 Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe
 260 265 270
 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 275 280 285
 Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe
 290 295 300
 Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 305 310 315 320
 Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 325 330 335
 Val Leu His Gln Asp Trp Leu Ser Gly Lys Glu Tyr Lys Cys Lys Val
 340 345 350
 Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
 355 360 365
 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
 370 375 380
 Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
 385 390 395 400
 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
 405 410 415
 Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser

420 425 430
 Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
 435 440 445
 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 450 455 460
 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 465 470 475

<210> 2719

<211> 118

<212> PRT

<213> Homo sapiens

<400> 2719

Met Phe Glu Ser Val Met Gly Ser Met Glu Gly Glu Met Lys Met Cys
 1 5 10 15
 Gly His Leu Val Phe Ser Leu Leu Ser Leu Leu Ser Gly Pro Leu Lys
 20 25 30
 Phe Ser Ile Leu Leu Lys Arg Lys Ile Val Ser Cys Phe Cys Glu Ala
 35 40 45
 Ile Ser Ser Met Lys Thr Ile Pro Phe Asp Ser Val Asn Cys Pro Met
 50 55 60
 Leu Ser Cys Val Leu Ala Leu His Ser Leu Pro Ala Pro Asn Cys Val
 65 70 75 80
 Lys Gln Met Pro Ala Val Thr Leu Pro Ile Asn His Pro Thr Gly Ser
 85 90 95
 Arg Ala Gln Phe Lys Thr Pro Lys Cys Arg Asn Val Phe Thr Cys Ala
 100 105 110

Phe His Thr Val Val Gly

115

<210> 2720

<211> 174

<212> PRT

<213> Homo sapiens

<400> 2720

Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Gly

1

5

10

15

Ser Val Ala Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser

20

25

30

Pro Gly Gln Thr Ala Ile Ile Thr Cys Ser Gly Asp Lys Leu Gly Asp

35

40

45

Lys Tyr Ser Phe Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Leu Leu

50

55

60

Leu Val Tyr Gln Asp Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe

65

70

75

80

Ser Gly Ser Asn Ser Gly Ser Thr Ala Ala Leu Thr Ile Ser Val Ala

85

90

95

Gln Thr Met Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser

100

105

110

Thr Ala Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Arg Glu Ser

115

120

125

Leu Leu Pro Ser Pro Ser Pro Leu Leu Gly Gln Cys Leu Leu Ile Leu

130

135

140

Phe Val Ser Val Cys Phe Ser Val Leu Pro His Lys Phe Pro Leu His

145 150 155 160
Pro Arg Pro Glu Gln Gly Pro Pro Pro Ser Leu Phe Arg Pro
 165 170

<210> 2721

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2721

Met Gly Asp Leu Gly Ser Gln Ala Leu Cys Asp Phe Leu Met Asn Phe
1 5 10 15
Leu Leu Trp Glu Arg Trp Leu Arg Glu Leu Leu Ala Ser Pro Pro Leu
 20 25 30
Pro Leu Pro Pro Pro Pro Ala Ser Thr Cys Ser Arg Pro Asp Val Arg
 35 40 45
Arg Val Met Cys Ala Val Val Pro Arg Pro Gly Ser Leu Gln Arg Gln
 50 55 60
Pro Ser Ser Asp Arg Arg Gln Lys Arg Gly Pro Pro Gln Val Ser Phe
65 70 75 80
Tyr Phe Asn Ile Ile Met Ser Leu Cys Val Leu Leu Leu Ser Ser Thr
 85 90 95
Ser Phe Tyr Ser Ala Asn Thr Asn Phe Ile Ser His Met Gly Arg Leu
 100 105 110
Cys Ala Arg
 115

<210> 2722

<211> 306

<212> PRT

<213> Homo sapiens

<400> 2722

Met Ser Thr Trp Lys Ala Arg Leu Thr Lys Arg Leu Lys Ser Pro Ser

1 5 10 15

Arg Ser Met His Pro Phe Pro Cys Ser Ala Leu Leu Ala Cys Phe Gly

20 25 30

Asn Thr Arg Glu Ser Ala Ser Phe Asn Gln Ser Gly Val Ala Asp Thr

35 40 45

His Ser Thr Val Arg Val Gln Pro Val Ala Lys Ala Gly Arg Gln Pro

50 55 60

Arg His Pro Ser Ala Glu Gly Ala Pro Glu Lys Arg Gln Asp Ser Ser

65 70 75 80

Thr His Ala Glu Arg Asn Gly Ser Ala Asn Arg Asn Ser Ser His Arg

85 90 95

Thr Ala Ala Gln Pro Ala Glu Thr Pro Glu Asp Val Pro Gly Ser Leu

100 105 110

Asp Asp Gly Ala Asp Cys Glu Ala Val Val Phe His Ala Ser Ile Pro

115 120 125

Arg Pro Ser Ile Ile Asp Thr Pro Lys Glu Glu Glu Phe Arg Glu Glu

130 135 140

Pro Lys Cys Leu Glu Leu Glu Gln Lys Met Thr Ser Asp Ser Pro Pro

145 150 155 160

Glu Asp Ile Asp His Lys Asp Ser Tyr Leu Ile Thr Arg Ser Ile Met

165 170 175

Ala Glu Pro Asp Tyr Ile Glu Asp Asp Asn Pro Glu Leu Ile Arg Pro

180 185 190
 Gln Lys Leu Ile Asn Pro Val Lys Thr Ser Arg Asn His Gln Asp Leu
 195 200 205
 His Arg Glu Leu Leu Met Asn Gln Lys Arg Gly Leu Ala Pro Gln Asn
 210 215 220
 Lys Pro Glu Leu Gln Lys Val Met Glu Lys Arg Lys Arg Asp Gln Val
 225 230 235 240
 Ile Lys Gln Lys Glu Glu Glu Ala Gln Lys Lys Lys Ser Asp Leu Glu
 245 250 255
 Ile Glu Leu Leu Lys Arg Gln Gln Lys Leu Glu Gln Leu Glu Leu Glu
 260 265 270
 Lys Gln Lys Leu Gln Glu Glu Gln Glu Asn Ala Pro Glu Phe Val Lys
 275 280 285
 Val Lys Gly Asn Leu Arg Arg Thr Gly Gln Glu Val Ala Gln Ala Gln
 290 295 300
 Glu Ser
 305

<210> 2723

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2723

Met Glu Cys Leu Trp Ile Gln Phe Trp Val Cys Pro Ser Asp Val Phe
 1 5 10 15
 Pro Val Leu Arg Glu Thr Asn Ser Leu Arg Glu Arg Lys Asn Leu Val
 20 25 30

Arg Pro Ser Phe Trp Glu Ile Lys Met Asn Asn Lys Thr Cys Ile Lys
35 40 45
Arg Val Ile Pro Tyr Leu Ser Lys Ser Asn Ile Ser Ile Phe Arg Ser
50 55 60
Gly Arg Val Asn Ile Ser Gly Gln Arg Lys Ser Lys Asn Asn Ile Lys
65 70 75 80
Ala Ala Met Ser Ile Ile Leu Gln Cys Phe Ala Ser Leu His Arg Ile
85 90 95
Leu Ser Lys Ile Leu Cys Lys Asn Asn Val Tyr Leu Ala Glu Leu Ser
100 105 110
Val Tyr Phe His Gln Pro Tyr Leu Phe Phe Cys Gly Glu Arg Arg
115 120 125

<210> 2724

<211> 471

<212> PRT

<213> Homo sapiens

<400> 2724

Met Glu Leu Gly Leu Arg Trp Val Phe Leu Val Ala Leu Leu Glu Gly
1 5 10 15
Val His Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys
20 25 30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe
35 40 45
Ser Tyr Tyr Thr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60
Glu Trp Val Ser Ser Ile Thr Ile Ser Ser Thr Tyr Leu Ser Tyr Ala

65 70 75 80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
 85 90 95
Val Leu Tyr Leu His Met Asn Ser Leu Arg Val Glu Asp Thr Ala Val
 100 105 110
Tyr Tyr Cys Thr Arg Asp Arg Val Val Ala Gly Ser Asp Pro Asn Phe
 115 120 125
Asp Tyr Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 130 135 140
Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
145 150 155 160
Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 165 170 175
Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 180 185 190
Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 195 200 205
Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 210 215 220
Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
225 230 235 240
Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 245 250 255
Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 260 265 270
Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 275 280 285
Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 290 295 300

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
305 310 315 320
Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
325 330 335
Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
340 345 350
Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
355 360 365
Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
370 375 380
Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
385 390 395 400
Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
405 410 415
Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
420 425 430
Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
435 440 445
Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
450 455 460
Leu Ser Leu Ser Pro Gly Lys
465 470

<210> 2725

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2725

Met Thr Leu Glu Pro His Leu Asp Lys Leu Pro Ser Ser Gln His Ser
 1 5 10 15
 Ser His Pro Val Phe Ala Asp Asp Ser His Ile Asp Ile Cys Pro Val
 20 25 30
 Ser Ala Ser Tyr Gln His Leu Asp Ser Phe Thr Val Val Pro Asn Arg
 35 40 45
 Leu Leu Leu Leu Asp Pro Cys Leu Gly Lys Trp His Gln Leu Pro Ala
 50 55 60
 Ala Ser Gln Ser Pro Ala Gln Pro Asp Ser Phe Pro Leu Pro Ala Thr
 65 70 75 80
 His Thr Asn Pro Val Val Pro Val Ile Leu Ala Ala Leu Phe Ser Pro
 85 90 95
 Ser Ser Cys Phe Met Leu Gln Cys Leu His Cys Gly Pro Leu Leu Cys
 100 105 110
 Leu Glu Phe Leu Leu Thr Val His Leu Pro Pro Gly Trp Tyr His Ser
 115 120 125
 Gly Ser Leu Cys Ile Thr Ala Arg Val Ile Phe Ser Phe
 130 135 140

<210> 2726

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2726

Met Gly Thr Leu Leu Ile Ser Lys Val Arg Glu Glu Tyr Pro Asp Arg
 1 5 10 15

Ile Met Asn Thr Phe Ser Val Val Pro Ser Pro Lys Val Ser Asp Thr
 20 25 30
 Val Val Glu Pro Tyr Asn Ala Thr Leu Ser Ile His Gln Leu Val Glu
 35 40 45
 Asn Thr Asp Glu Thr Tyr Cys Ile Asp Asn Glu Ala Leu Tyr Asp Ile
 50 55 60
 Cys Phe Arg Thr Leu Lys Leu Ala Thr Pro Thr Tyr Gly Asp Leu Asn
 65 70 75 80
 His Leu Val Ser Ala Thr Met Ser Gly Val Thr Thr Ser Leu Arg Phe
 85 90 95
 Pro Gly Gln Leu Asn Ala Asp Leu Arg Lys Leu Ala Val Asn Met Val
 100 105 110
 Pro Phe Pro Arg Leu His Phe Phe Met Pro Gly Phe Ala Pro Leu Thr
 115 120 125
 Ala Arg Gly Ser Gln Gln Tyr Arg Ala Leu Thr Val Pro Glu Leu Thr
 130 135 140
 Gln Gln Met Phe Asp Ala Lys Asn Met Met Ala Ala Cys Asp Pro Arg
 145 150 155 160
 His Gly Arg Tyr Leu Thr Val Ala Thr Val Phe Arg Gly Arg Met Ser
 165 170 175
 Met Lys Glu Val Asp Glu Gln Met Leu Ala Ile Gln Ser Lys Asn Ser
 180 185 190
 Ser Tyr Phe Val Glu Trp Ile Pro Asn Asn Val Lys Val Ala Val Cys
 195 200 205
 Asp Ile Pro Pro Arg Gly Leu Lys Met Ser Ser Thr Phe Ile Gly Asn
 210 215 220
 Ser Thr Ala Ile Gln Glu Leu Phe Lys Arg Ile Ser Glu Gln Phe Thr
 225 230 235 240
 Ala Met Phe Arg Arg Lys Ala Phe Leu His Trp Tyr Thr Gly Glu Gly

	245		250		255
Met Asp Glu Met Glu Phe Thr Glu Ala Glu Ser Asn Met Asn Asp Leu					
	260		265		270
Val Ser Glu Tyr Gln Gln Tyr Gln Asp Ala Thr Ala Glu Glu Glu Gly					
	275		280		285
Glu Met Tyr Glu Asp Asp Glu Glu Glu Ser Glu Ala Gln Gly Pro Lys					
	290		295		300

<210> 2727

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2727

Met Glu Cys Ser Gly Ala Ile Leu Ala Gln Cys Asn Leu His Leu Pro			
1	5	10	15
Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Gln Val Ala Gly Ile Thr			
	20	25	30
Gly Ala His His His Thr Gln Leu Ile Phe Val Leu Leu Val Glu Met			
	35	40	45
Gly Phe His His Val Gly Trp Ala Gly Leu Glu Leu Leu Thr Ser Asn			
	50	55	60
Asp Leu Pro Thr Pro Thr Ser Gln Ile Ala Gly Ile Thr Gly Ile Ser			
	65	70	75
Pro His Thr Gln Pro Asp His Ile Cys Phe Arg Lys Ala Ser Phe His			
	85	90	95
Ala Phe Thr Ser Ser Ser Phe Phe Phe Val Leu Phe Leu Phe Phe Phe			
	100	105	110

Leu Arg Trp Gly Leu Ala Met Leu Pro Lys Leu Val

115

120

<210> 2728

<211> 231

<212> PRT

<213> Homo sapiens

<400> 2728

Met Arg Glu Asp Val Pro Val Arg Val Lys Ala Lys Leu Lys Leu Leu

1

5

10

15

Ala Ser Thr Phe His Lys Asn Gln Glu Pro Gln Pro Arg Leu Thr Leu

20

25

30

His Arg Asn Arg Arg Trp Gly Ala Arg Arg Arg Pro Arg Arg Ala Gly

35

40

45

Arg Gly Arg Arg Trp Gly Ser Leu Gly Thr Asp Gly Gly Leu Thr Gly

50

55

60

Arg Gly Pro Gly Ser Pro Pro Leu Pro Pro Ser Ala Gly Pro Ala Pro

65

70

75

80

Pro Pro Gly Leu Arg Glu Ala Trp Val Gly Gly Gly Gly Gly Arg Val

85

90

95

Ser Pro Ala Pro Gly Ala Gly Leu Thr Arg Gly Pro Leu Ala Pro Leu

100

105

110

Gly Arg Arg Arg His Ala Pro Arg Trp Glu Pro Ala Ala Ala Gly Ala

115

120

125

Leu Leu Gly Pro Met Val Ala Leu Gly Gln Arg Asp Cys Ser Arg Asp

130

135

140

Leu Asp Gly Ala Gly Arg Gly Ala Pro Ala Leu Phe Glu Pro Arg Arg

145 150 155 160
 Gly Arg Glu Lys Ala Ser Glu Met Leu Ala Cys Phe Ala Trp Ala Arg
 165 170 175
 Trp Arg Thr Pro Val Ile Pro Lys Cys Trp Asp Ser Arg Arg Glu Pro
 180 185 190
 Pro Arg Arg Asp Pro Arg Pro Leu Ser Phe Lys Ala Ser Phe Phe Ser
 195 200 205
 Gln Val Phe Pro Val Pro Ala Cys Ser Ala Asn Phe Leu Leu Leu Leu
 210 215 220
 Phe Cys Phe Cys Phe Cys Phe
 225 230

<210> 2729

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2729

Met Thr Thr Gly Trp Gly Ser Pro Glu Ser Lys Gly Gly Glu Glu Thr
 1 5 10 15
 Asp Val Gln Lys Glu Ala Gly Ile Ser Gly Asp Thr Pro Ser Pro Ala
 20 25 30
 Ala Leu Ser Ser Leu His Thr Leu Pro Gly Ser Asp Lys Pro Glu Arg
 35 40 45
 Lys Pro Thr Met Gln Asp Cys Pro Cys Asp Gly Ser Ser Arg Gly Ser
 50 55 60
 Ile Ser Lys Arg Leu Arg Gly Pro His Arg Gly Pro Gly Pro Gln Ala
 65 70 75 80

Lys Ala Thr Pro Val Ser Leu Pro Ser Trp Glu Trp Glu Glu Ser Gly
 85 90 95
 Pro Ala Leu Ser Cys Leu Pro Pro Trp Lys Pro Ser Leu Ser Thr Gly
 100 105 110
 Leu Leu Phe Thr Arg Leu Cys Leu Trp Leu Val Gly Ile Cys Pro Leu
 115 120 125
 Ser Asp
 130

<210> 2730

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2730

Met Ser Gly Met Val Asn Arg Thr Ser Gly Ser Trp Ser Val Trp Gly
 1 5 10 15
 Thr Gln Thr His Glu Ser Arg Lys Gln Arg Thr Thr Gly Ser Met Phe
 20 25 30
 Pro Met Ser Glu Ser Thr Gln Leu Gln Phe His Leu Ser Pro Ser Gln
 35 40 45
 Thr Leu Lys Val Gly Phe Thr Ser Trp Asn Lys His Phe Ser Thr Ser
 50 55 60
 Asp Phe Phe Asn Lys Ala Leu Leu Glu Tyr Asn Leu His Ala Ile Thr
 65 70 75 80
 Phe Pro Leu Leu Asp Gly Asn Asn Arg His Trp Glu Leu Gln Lys Ser
 85 90 95
 Arg Glu Glu Arg Glu Gly

100

<210> 2731

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2731

Met Pro Ser Asp Arg Leu Tyr Phe Cys Arg Glu Pro Gly Cys Ala Ala
1 5 10 15
Ala Glu Ala Arg Lys Ala Lys Pro Glu Gly Pro Gly Ala Arg Ser Arg
20 25 30
Ala Gln Arg Leu Leu Ser Gly Glu Gly Leu Cys Arg Gly Ser Gly Ile
35 40 45
Leu Asp Ser Leu Lys Cys Leu Ile Phe Ile Leu Cys Leu Ile Val Cys
50 55 60
Leu Ala Asn Ser Tyr Val Phe Leu Lys Ser Trp Leu Arg His Pro Tyr
65 70 75 80
Ser Gly Asp Val Val Thr Pro Ser Ser Gly Leu Pro Leu Ala Leu Leu
85 90 95
Pro Leu Met Ala Ala Cys Asp Pro His Ala Gly Cys Ser Gly Cys Leu
100 105 110
Phe Leu Tyr Leu Arg Gly Arg Gly His Pro Gly Ala Arg Pro Gly Asp
115 120 125
Cys

<210> 2732

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2732

Met Thr Tyr Thr Leu Arg Val Tyr Ser Arg Asp Asn Glu Gly Ile Ser

1 5 10 15

Ser Thr Val Ile Thr Phe Met Thr Ser Thr Ala Tyr Thr Asn Asn Gln

20 25 30

Ala Asp Ile Ala Thr Gln Gly Trp Phe Ile Gly Leu Met Cys Ala Ile

35 40 45

Ala Leu Leu Val Leu Ile Leu Leu Ile Val Cys Phe Ile Lys Arg Ser

50 55 60

Arg Gly Gly Lys Tyr Pro Val Arg Glu Lys Lys Asp Val Pro Leu Gly

65 70 75 80

Pro Glu Asp Pro Lys Glu Glu Asp Gly Ser Phe Asp Tyr Ser Asp Glu

85 90 95

Asp Asn Lys Pro Leu Gln Gly Ser Gln Thr Ser Leu Asp Gly Thr Ile

100 105 110

Lys Gln Gln Glu Ser Asp Asp Ser Leu Val Asp Tyr Gly Glu Gly Gly

115 120 125

Glu Gly Gln Phe Asn Glu Asp Gly Ser Phe Ile Gly Gln Tyr Thr Val

130 135 140

Lys Lys Asp Lys Glu Glu Thr Glu Gly Asn Glu Ser Ser Glu Ala Thr

145 150 155 160

Ser Pro Val Asn Ala Ile Tyr Ser Leu Ala

165 170

<210> 2733

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2733

Met Ala Pro Ser Glu Asp Pro Arg Asp Trp Arg Ala Asn Leu Lys Gly

1 5 10 15

Thr Ile Arg Glu Thr Gly Leu Glu Thr Ser Ser Gly Gly Lys Leu Ala

20 25 30

Gly His Gln Lys Thr Val Pro Thr Ala His Leu Thr Phe Val Ile Asp

35 40 45

Cys Thr His Gly Lys Gln Leu Ser Leu Ala Ala Thr Ala Ser Pro Pro

50 55 60

Gln Ala Pro Ser Pro Asn Arg Gly Leu Val Thr Pro Pro Met Lys Thr

65 70 75 80

Tyr Ile Val Phe Cys Gly Glu Asn Trp Pro His Leu Thr Arg Val Thr

85 90 95

Pro Met Gly Gly Gly Cys Leu Ala Gln Ala Arg Ala Thr Leu Pro Leu

100 105 110

Cys Arg Gly Ser Val Ala Ser Ala Ser Phe Pro Val Ser Pro Leu Cys

115 120 125

Pro Gln Glu Val Pro Glu Ala Lys Gly Lys Pro Val Lys Ala Ala Pro

130 135 140

Val Arg Ser Ser Thr Trp Gly Thr Val Lys Asp Ser Leu Lys Ala Leu

145 150 155 160

Ser Ser Cys Val Cys Gly Gln Ala Asp

165

<210> 2734

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2734

Met Glu Met Ser Leu Gly Ser Pro Trp Gly Gln Glu Gln Asn Phe Glu

1 5 10 15

Val Ser Gly Thr Lys Gly Cys Phe His Ile Thr His Gly Ser Gly Asn

20 25 30

Val Ser Val Gln Thr Ser Val Ser Gln Pro Trp His Cys Asp Ile Trp

35 40 45

Gly Gln Ile Val Phe Cys Trp Glu Val Gly Gly Ala Ala Ile Leu Cys

50 55 60

Ile Ile Gly Cys Cys Ala Ala Thr Leu Gly Ser Ile Tyr Gln Ala Ser

65 70 75 80

Ser Thr Pro Arg Leu Pro Leu Gly Cys Asp Lys Arg Lys Lys Asn Val

85 90 95

Ser Arg His Cys Gln Met Ser Pro Ala Gly Ala Lys Ser Leu

100 105 110

<210> 2735

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2735

Met Arg Arg Leu Pro Leu Pro Gly Val Trp Cys Gln Pro Pro Ala Trp
 1 5 10 15
 Gln Arg Asn Ser Ser Pro Cys Ser Pro Lys Leu Leu Gln Ala Phe Cys
 20 25 30
 Phe Pro Asp Ser Glu Trp Ala Arg Cys Pro Val Gly Thr Arg Leu Val
 35 40 45
 Ser Pro Pro Thr Gly Asp Asp Val Lys Ile Gln Leu Ser Leu Val Ser
 50 55 60
 Pro Gly Asp Asp Ile Leu Arg Leu Val Phe Leu Gln Glu Asn Arg Asp
 65 70 75 80
 Arg Ser Pro Pro Thr Asp Gly Val Ser Leu Cys Arg Pro Gly Trp Ser
 85 90 95
 Val Val Ala Gln Ser Trp Leu Thr Ala Thr Ser Asp Ser Arg Val Gln
 100 105 110
 Glu Ile Leu Leu His Gln Pro Pro Lys
 115 120

<210> 2736

<211> 459

<212> PRT

<213> Homo sapiens

<400> 2736

Met Ala Ala Gln Gly Pro Lys Ser Gly Gly Cys Gly Glu Gly Leu Glu
 1 5 10 15
 Gly Val Leu Leu Cys Arg Ala Val Gly Leu Glu Arg Leu His His Trp
 20 25 30

Thr Leu Glu Pro Gly Arg Lys Pro Thr His Ser Gly Thr Gly Ile Thr
 35 40 45
 Pro Gln Gly Cys Thr Ser Glu Ala Pro Ile Ala Ala Glu Asp Ser Ile
 50 55 60
 Pro Glu Leu Gly Glu Gly Val Leu Gly Arg Lys Arg Thr Leu Ser Pro
 65 70 75 80
 Phe Lys Ser Glu Ser Arg Thr His Trp Val Ala Gly Gln Lys Leu Asn
 85 90 95
 Phe Asn Pro Thr Cys Ala Leu Ser Pro Arg Leu Pro Gln Pro Gly Arg
 100 105 110
 Arg Gly Gly Thr Glu Leu Gly Glu Asp Thr Arg Gly Trp Arg Gly Arg
 115 120 125
 Ser Arg Glu Leu Leu Ser Thr Gly Ser Cys Arg Arg Arg Glu Gln Thr
 130 135 140
 Arg Pro Ser Pro Leu Ser Ile Ser Lys Pro Arg Arg Ala Asp Leu Gly
 145 150 155 160
 Cys Trp Gly Ser Ala Pro Arg Ala Leu Pro Cys Pro Phe Gly Arg Gly
 165 170 175
 Gln Leu Pro Ala Cys Cys Ser Pro Ala Thr Val Arg Pro Ala Ala Gln
 180 185 190
 Gly Cys Ala Gln Pro Ala Pro Arg Val Ala Ala Gly Thr Pro Ala Val
 195 200 205
 Gly Pro Thr Leu Ala Leu Arg Arg Leu Asp Lys Leu Pro Ser Ser Arg
 210 215 220
 Ala Pro Ala Pro Ser Lys Leu Thr Gly Gly Ser Leu Ala Gly Leu Leu
 225 230 235 240
 Trp Ala Leu Ala Gly Arg Ala Cys Ser Leu Pro Leu Ser Asn Pro Glu
 245 250 255
 Pro Leu Ala Pro Ile Ala Val Pro Ala Gln Arg Leu Gln Gln Ser Gln

260	265	270
Arg Thr Gly Asp Asp Pro Ala Arg Gly Trp Glu Trp Gln Arg Gly Pro		
275	280	285
Gln Ser Gln Lys Glu Ala Ser Pro Arg Arg Gly Glu Tyr Ser Gly Lys		
290	295	300
Gly Gln Arg Glu Arg Ser Gly Glu Arg Lys Gly Lys Lys Val Phe Cys		
305	310	315
Ser Arg Arg Glu Arg Leu Pro Gly Ser Ser Ser Phe Pro Phe Ser Ser		
325	330	335
Cys Leu Ser Ala Ser His Val Pro Leu Gly Ile Gly Arg Arg Gly Arg		
340	345	350
Glu Glu Gly Arg Gly Asp Ala Val Ala Trp Arg Ala Ser Arg Ser Leu		
355	360	365
Thr Ser Val Gln Gly Glu Arg Leu Asp His Cys Gln Cys Arg His Val		
370	375	380
Cys Arg Gly Ser Arg Ser Asp Ala Arg Leu Gln His Gln Gln Pro Leu		
385	390	395
Val Val Arg Lys Lys Gly Gly Asp Trp Gly Arg Gly Trp Arg Gly Lys		
405	410	415
Thr Glu Arg Arg Gly Arg Arg Gly Lys Glu Gly Arg Trp Trp Trp Trp		
420	425	430
Arg Arg Lys Leu Gly Trp Val Gly Ser Gln Met Glu Thr Gln Leu Phe		
435	440	445
Arg Gly Gly Arg Ser Ser Val Ala Val Arg Ser		
450	455	

<210> 2737

<211> 147

<212> PRT

<213> Homo sapiens

<400> 2737

Met Pro Thr Phe Gly Gly Leu Phe Pro Tyr Pro Tyr Thr Tyr Met Ala
1 5 10 15
Ala Ala Ala Ala Ala Ala Ser Ala Leu Pro Ala Thr Ser Ala Ala Ala
20 25 30
Ala Ala Ala Ala Ala Ala Gly Ser Leu Ser Arg Ser Pro Phe Leu Gly
35 40 45
Ser Ala Arg Pro Arg Leu Arg Phe Ser Pro Tyr Gln Ile Pro Val Thr
50 55 60
Ile Pro Pro Ser Thr Ser Leu Leu Thr Thr Gly Leu Ala Ser Glu Gly
65 70 75 80
Ser Lys Ala Ala Gly Gly Asn Ser Arg Glu Pro Ser Pro Leu Pro Glu
85 90 95
Leu Ala Leu Arg Lys Val Gly Ala Pro Ser Arg Gly Ala Leu Ser Pro
100 105 110
Ser Gly Ser Ala Lys Glu Ala Ala Asn Glu Leu Gln Ser Ile Gln Arg
115 120 125
Leu Val Ser Gly Leu Glu Ser Gln Arg Ala Leu Ser Pro Gly Arg Glu
130 135 140
Ser Pro Lys
145

<210> 2738

<211> 443

<212> PRT

<213> Homo sapiens

<400> 2738

Met Ser Ser Ser Leu Ser Val Arg Arg Ser Tyr Ser Ser Ser Ser Gly
 1 5 10 15
 Ser Leu Met Pro Ser Leu Glu Asn Leu Asp Leu Ser Gln Val Ala Ala
 20 25 30
 Ile Ser Asn Asp Leu Lys Ser Ile Arg Thr Gln Glu Lys Ala Gln Leu
 35 40 45
 Gln Asp Leu Asn Asp Arg Phe Ala Ser Phe Ile Glu Arg Val His Glu
 50 55 60
 Leu Glu Gln Gln Asn Lys Val Leu Glu Ala Glu Leu Leu Val Leu Arg
 65 70 75 80
 Gln Lys His Ser Glu Pro Ser Arg Phe Arg Ala Leu Tyr Glu Gln Glu
 85 90 95
 Ile Arg Asp Leu Arg Leu Ala Ala Glu Asp Ala Thr Asn Glu Lys Arg
 100 105 110
 Ile Asp Ser Leu Met Asp Glu Ile Ser Phe Leu Lys Lys Val His Glu
 115 120 125
 Glu Glu Ile Ala Glu Leu Gln Ala Gln Ile Gln Tyr Ala Gln Ile Ser
 130 135 140
 Val Glu Met Asp Val Thr Lys Pro Asp Leu Ser Ala Ala Leu Lys Asp
 145 150 155 160
 Ile Arg Ala Gln Tyr Glu Lys Leu Ala Ala Lys Asn Met Gln Asn Ala
 165 170 175
 Glu Glu Trp Phe Lys Ser Arg Phe Thr Val Leu Thr Glu Ser Ala Ala
 180 185 190
 Lys Asn Thr Asp Ala Val Arg Ala Ala Lys Asp Glu Val Ser Glu Ser
 195 200 205

Arg Arg Leu Leu Lys Ala Lys Thr Leu Glu Ile Glu Ala Cys Arg Gly
 210 215 220
 Met Asn Glu Ala Leu Glu Lys Gln Leu Gln Glu Leu Glu Asp Lys Gln
 225 230 235 240
 Asn Ala Asp Ile Ser Ala Met Gln Asp Thr Ile Asn Lys Leu Glu Asn
 245 250 255
 Glu Leu Arg Thr Thr Lys Ser Glu Met Ala Arg Tyr Leu Lys Glu Tyr
 260 265 270
 Gln Asp Leu Leu Asn Val Lys Met Ala Leu Asp Ile Glu Ile Ala Ala
 275 280 285
 Tyr Arg Lys Leu Leu Glu Gly Glu Glu Thr Arg Leu Ser Phe Thr Ser
 290 295 300
 Val Gly Ser Ile Thr Ser Gly Tyr Ser Gln Ser Ser Gln Val Phe Gly
 305 310 315 320
 Arg Ser Ala Tyr Gly Gly Leu Gln Thr Ser Ser Tyr Leu Met Ser Thr
 325 330 335
 Arg Ser Phe Pro Ser Tyr Tyr Thr Ser His Val Gln Glu Glu Gln Ile
 340 345 350
 Glu Val Glu Glu Thr Ile Glu Ala Ala Lys Ala Glu Glu Ala Lys Asp
 355 360 365
 Glu Pro Pro Ser Glu Gly Glu Ala Glu Glu Glu Glu Lys Asp Lys Glu
 370 375 380
 Glu Ala Glu Glu Glu Glu Ala Ala Glu Glu Glu Glu Ala Ala Arg Glu
 385 390 395 400
 Glu Ser Glu Glu Ala Lys Glu Glu Glu Glu Gly Gly Glu Gly Glu Glu
 405 410 415
 Gly Glu Glu Thr Lys Glu Ala Glu Glu Glu Glu Lys Lys Val Glu Gly
 420 425 430
 Ala Gly Glu Glu Gln Ala Ala Lys Lys Lys Asp

435

440

<210> 2739

<211> 126

<212> PRT

<213> Homo sapiens

<400> 2739

Met Gln Ile His His Cys Pro Gly Pro Ser Ser Val Thr Leu Ser Ala

1 5 10 15

Trp Ser Leu Leu Gly Pro Cys Cys Val Gly Asn Pro Glu Gly Arg Trp

20 25 30

Val Ser Ser Ala Leu Thr Pro Ala Ile Pro Asn Trp Ala Tyr Ala Ser

35 40 45

Pro Gln Ile Arg Val Pro Ala Phe Leu Asp Leu Phe Met Gln Ser Leu

50 55 60

Phe Lys Pro Gly Ala Arg Ile Asn Gln Asp His Lys His Lys Tyr Ile

65 70 75 80

His Ile Leu Ala Tyr Ala Ala Ser Val Val Glu Thr Trp Lys Lys Val

85 90 95

Pro Ser Val Leu Gly Ile Cys Gly Phe Phe Arg Arg Gln Ile Ser Ser

100 105 110

Ser Ala Leu Ile Leu Phe Trp Asn Phe Gly Cys Lys Lys Ser

115 120 125

<210> 2740

<211> 481

<212> PRT

<213> Homo sapiens

<400> 2740

Met Pro Gln Thr Ser Val Ala Phe Ser Ser Ile Leu Gly Pro Ser Cys

1 5 10 15

Ser Gly Gln Val Gln Pro Gly Met Gly Glu Arg Gly Gly Gly Ala Gly

20 25 30

Gly Gly Ser Gly Asp Leu Ile Phe Gln Asp Gly His Leu Ile Ser Gly

35 40 45

Ser Leu Glu Ala Leu Met Glu Arg Leu Val Pro Thr Val Asp Tyr Tyr

50 55 60

Pro Asp Arg Thr Tyr Ile Phe Thr Phe Leu Leu Ser Ser Arg Val Phe

65 70 75 80

Met Pro Pro His Asp Leu Leu Ala Arg Val Gly Gln Ile Cys Val Glu

85 90 95

Gln Lys Gln Gln Leu Glu Ala Gly Pro Glu Lys Ala Lys Leu Lys Ser

100 105 110

Phe Ser Ala Lys Ile Val Gln Leu Leu Lys Glu Trp Thr Glu Ala Phe

115 120 125

Pro Tyr Asp Phe Gln Asp Glu Lys Ala Met Ala Glu Leu Lys Ala Ile

130 135 140

Thr His Arg Val Thr Gln Cys Asp Glu Glu Asn Gly Thr Val Lys Lys

145 150 155 160

Ala Ile Ala Gln Met Thr Gln Ser Leu Leu Leu Ser Leu Ala Ala Arg

165 170 175

Ser Gln Leu Gln Glu Leu Arg Glu Lys Leu Arg Pro Pro Ala Val Asp

180 185 190

Lys Gly Pro Ile Leu Lys Thr Lys Pro Pro Ala Ala Gln Lys Asp Ile

195	200	205	
Leu Gly Val Cys Cys Asp Pro Leu Val Leu Ala Gln Gln Leu Thr His			
210	215	220	
Ile Glu Leu Asp Arg Val Ser Ser Ile Tyr Pro Glu Asp Leu Met Gln			
225	230	235	240
Ile Val Ser His Met Asp Ser Leu Asp Asn His Arg Cys Arg Gly Asp			
245	250	255	
Leu Thr Lys Thr Tyr Ser Leu Glu Ala Tyr Asp Asn Trp Phe Asn Cys			
260	265	270	
Leu Ser Met Leu Val Ala Thr Glu Val Cys Arg Val Val Lys Lys Lys			
275	280	285	
His Arg Thr Arg Met Leu Glu Phe Phe Ile Asp Val Ala Arg Glu Cys			
290	295	300	
Phe Asn Ile Gly Asn Phe Asn Ser Met Met Ala Ile Ile Ser Gly Met			
305	310	315	320
Asn Leu Ser Pro Val Ala Arg Leu Lys Lys Thr Trp Ser Lys Val Lys			
325	330	335	
Thr Ala Lys Phe Asp Val Leu Glu His His Met Asp Pro Ser Ser Asn			
340	345	350	
Phe Cys Asn Tyr Arg Thr Ala Leu Gln Gly Ala Thr Gln Arg Ser Gln			
355	360	365	
Met Ala Asn Ser Ser Arg Glu Lys Ile Val Ile Pro Val Phe Asn Leu			
370	375	380	
Phe Val Lys Asp Ile Tyr Phe Leu His Lys Ile His Thr Asn His Leu			
385	390	395	400
Pro Asn Gly His Ile Asn Phe Lys Lys Phe Trp Glu Ile Ser Arg Gln			
405	410	415	
Ile His Glu Phe Met Thr Trp Thr Gln Val Glu Cys Pro Phe Glu Lys			
420	425	430	

Asp Lys Lys Ile Gln Ser Tyr Leu Leu Thr Ala Pro Ile Tyr Ser Glu
 435 440 445
 Glu Ala Leu Phe Val Ala Ser Phe Glu Ser Glu Gly Pro Glu Asn His
 450 455 460
 Met Glu Lys Asp Ser Trp Lys Thr Leu Arg Thr Thr Leu Leu Asn Arg
 465 470 475 480
 Ala

<210> 2741

<211> 492

<212> PRT

<213> Homo sapiens

<400> 2741

Met Arg Arg Asp Leu Arg Glu Lys Leu Val Trp Val Cys Arg Pro Leu
 1 5 10 15
 Ala Pro Val Glu Val Pro Ala Asn Ile Ser Ser Asp Phe Gln Pro Cys
 20 25 30
 Ser Pro Thr Ser Pro Ala His Ser Leu Ser Arg Lys Ser Pro Ile Met
 35 40 45
 Tyr Pro Ser Thr Thr Met Ala Asn Ala Pro Gly Leu Val Ser Cys Thr
 50 55 60
 Phe Phe Leu Ala Val Asn Gly Leu Tyr Ser Ser Ser Asp Asp Val Ile
 65 70 75 80
 Glu Leu Thr Pro Ser Asn Phe Asn Arg Glu Val Ile Gln Ser Asp Ser
 85 90 95
 Leu Trp Leu Val Glu Phe Tyr Ala Pro Trp Cys Gly His Cys Gln Arg

100	105	110	
Leu Thr Pro Glu Trp Lys Lys Ala Ala Thr Ala Leu Lys Asp Val Val			
115	120	125	
Lys Val Gly Ala Val Asp Ala Asp Lys His His Ser Leu Gly Gly Gln			
130	135	140	
Tyr Gly Val Gln Gly Phe Pro Thr Ile Lys Ile Phe Gly Ser Asn Lys			
145	150	155	160
Asn Arg Pro Glu Asp Tyr Gln Gly Gly Arg Thr Gly Glu Ala Ile Val			
165	170	175	
Asp Ala Ala Leu Ser Ala Leu Arg Gln Leu Val Lys Asp Arg Leu Gly			
180	185	190	
Gly Arg Ser Gly Gly Tyr Ser Ser Gly Lys Gln Gly Arg Ser Asp Ser			
195	200	205	
Ser Ser Lys Lys Asp Val Ile Glu Leu Thr Asp Asp Ser Phe Asp Lys			
210	215	220	
Asn Val Leu Asp Ser Glu Asp Val Trp Met Val Glu Phe Tyr Ala Pro			
225	230	235	240
Trp Cys Gly His Cys Lys Asn Leu Glu Pro Glu Trp Ala Ala Ala Ala			
245	250	255	
Ser Glu Val Lys Glu Gln Thr Lys Gly Arg Val Lys Leu Ala Ala Val			
260	265	270	
Asp Ala Thr Val Asn Gln Val Leu Ala Ser Arg Tyr Gly Ile Arg Gly			
275	280	285	
Phe Pro Thr Ile Lys Ile Phe Gln Lys Gly Glu Ser Pro Val Asp Tyr			
290	295	300	
Asp Gly Gly Arg Thr Arg Ser Asp Ile Val Ser Arg Ala Leu Asp Leu			
305	310	315	320
Phe Ser Asp Asn Ala Pro Pro Pro Glu Leu Leu Glu Ile Ile Asn Glu			
325	330	335	

Asp Ile Ala Lys Arg Thr Cys Glu Glu His Gln Leu Cys Val Val Ala
 340 345 350
 Val Leu Pro His Ile Leu Asp Thr Gly Ala Ala Gly Arg Asn Ser Tyr
 355 360 365
 Leu Glu Val Leu Leu Lys Leu Ala Asp Lys Tyr Lys Lys Lys Met Trp
 370 375 380
 Gly Trp Leu Trp Thr Glu Ala Gly Ala Gln Ser Glu Leu Glu Thr Ala
 385 390 395 400
 Leu Gly Ile Gly Gly Phe Gly Tyr Pro Ala Met Ala Ala Ile Asn Ala
 405 410 415
 Arg Lys Met Lys Phe Ala Leu Leu Lys Gly Ser Phe Ser Glu Gln Gly
 420 425 430
 Ile Asn Glu Phe Leu Arg Glu Leu Ser Phe Gly Arg Gly Ser Thr Ala
 435 440 445
 Pro Val Gly Gly Gly Ala Phe Pro Thr Ile Val Glu Arg Glu Pro Trp
 450 455 460
 Asp Gly Arg Asp Gly Glu Leu Pro Val Glu Asp Asp Ile Asp Leu Ser
 465 470 475 480
 Asp Val Glu Leu Asp Asp Leu Gly Lys Asp Glu Leu
 485 490

<210> 2742

<211> 292

<212> PRT

<213> Homo sapiens

<400> 2742

Met Gln Pro Ser Arg Glu Ala Leu Glu Leu Arg Gly Leu Pro Lys Ser

1	5	10	15
Val Ser Thr	Val Ser Ser Thr	Lys Pro Pro Leu	Thr Thr Pro Ser Ser
20	25	30	
Thr Asn Pro	Ser Arg Gln Leu	Ala Leu Glu Asp	Cys Val Gln Leu Arg
35	40	45	
Ala Ala Leu	Asp Leu Gly Tyr	Gly Pro Glu Cys	Cys Cys His His Leu
50	55	60	
Pro Glu Val	Ala His Lys Ser	Ser Ala Ser Ala	Gly Ala Pro Ser Ala
65	70	75	80
Arg Leu Pro	Leu Gln Pro His	Ser Leu Gly Thr	Arg Thr Lys Leu Pro
85	90	95	
Pro Ser Leu	Cys Leu Pro Gly	Pro Gly Arg Thr	Arg Leu Thr Thr Glu
100	105	110	
Pro Phe Pro	Gly Ala Pro Phe	Cys Ser Asp Ser	Cys Ser Pro Ala Leu
115	120	125	
Cys Cys Val	Leu Leu Thr Pro	Gly Arg Gly Arg	Gly Ser Val Ala Pro
130	135	140	
Leu Gly Ser	Ser Gln Asp Gly	Arg Gly Gly Cys	Cys Pro Thr Asp Thr
145	150	155	160
Val Pro Ala	Ala Gln Gly Met	Asp Ala Ser Trp	Thr Val Ala Pro Ala
165	170	175	
Gln Glu Trp	Leu Gly His Pro	Leu Gln Ser Cys	Pro Gln Ser Ala Ser
180	185	190	
Arg Gly His	Leu Pro Leu Pro	Leu Pro Thr Pro	Thr Thr Pro Cys Ile
195	200	205	
Ser Gln Pro	Pro Gly Arg Arg	Cys Arg Pro His	Cys Gly Lys Glu Leu
210	215	220	
Phe Arg Ala	Pro Gly Ala Leu	His Phe Leu Pro	Arg Arg His Pro Ala
225	230	235	240

Ala Val Arg His Arg Trp Thr Arg Ala Cys Pro Glu Gly Pro Arg Met

245 250 255

His Ile Pro Gln Gly Trp Leu Leu Ser Ser Pro Ser Leu Leu Thr Asp

260 265 270

Trp Phe Ser Met Asp Ser Phe Lys Pro Pro Ser Leu Ala Ser Gly Gln

275 280 285

Ile Ser Lys Thr

290

<210> 2743

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2743

Met Gly Leu Lys Ser His Val Leu Pro Ala Pro Asn Ser Gln Gly Gln

1 5 10 15

Gly Ser Leu Cys Ile Phe Val Tyr Val Thr Ser Tyr Met Asp Tyr Ile

20 25 30

Gln Leu Gln Gly Lys Glu Asn Leu Asp Cys Ser Gly Leu Asn Lys Gln

35 40 45

Lys Ile Val Phe Pro His Ser Met Asp Ser Gly Asp Gly Trp Leu Met

50 55 60

Val Leu Val Gln Gln Leu His Glu Gly Arg Gly His Val Leu Asp Pro

65 70 75 80

Phe Ala Leu Ile Ser Val Leu Val Thr Ser Trp Ser Gln Asp Gly Cys

85 90 95

Cys Ile Pro Lys Asn His Val Cys Val Gln Gly Arg Arg Gly Gly Gly

100 105 110
 Arg Gly Arg Ala Lys Leu Ala Gly Pro Val Thr Phe Tyr Gln Lys Val
 115 120 125
 Lys Pro Arg Gln Lys Ser Val Ser Cys Ser Leu Pro Leu His Ile Phe
 130 135 140
 Thr
 145

<210> 2744

<211> 474

<212> PRT

<213> Homo sapiens

<400> 2744

Met Gly Val Val Leu Leu Pro His Pro Ala Pro Ser Arg Arg Glu Pro
 1 5 10 15
 Leu Ala Pro Leu Ala Pro Gly Thr Arg Pro Gly Trp Ser Pro Ala Val
 20 25 30
 Ser Gly Ser Ser Arg Ser Ala Leu Arg Pro Ser Thr Ala Gly Pro Gly
 35 40 45
 Pro Gly Pro Gly Thr Gly Trp Gly Gly Thr Ala Ala Ser Gly Arg Trp
 50 55 60
 Val Pro Ala Pro Ala Val His Cys Ala Ala Pro Arg Ala Ala Ala Gly
 65 70 75 80
 His Gln Gln His His Gly Pro Pro Leu Cys Ser Pro Asp Gly Ala Pro
 85 90 95
 Arg Arg Phe Lys Arg Arg Pro Gly Ser Pro Ala Pro Ala Ala Gln Thr
 100 105 110

Gly Glu Thr Ser Leu Arg Glu Gln Pro His Gly Gly Pro Pro Ala Val
 115 120 125
 Pro Phe Val Val Pro Pro Thr Leu Gln Gly Arg Asp Trp Val Pro Leu
 130 135 140
 His Ser Gly Glu Trp Ala Asp Ala Pro Trp Asp Pro Cys Pro Ala Ser
 145 150 155 160
 Glu Leu Leu Pro His Thr Ser Ser Gly Gly Leu Gly Asp Ala Cys Met
 165 170 175
 Val Gly Ala Ile Asn Pro Glu Leu Tyr Lys Phe Pro Glu Asp Lys Ser
 180 185 190
 Glu Thr Asp Phe Pro Asp Gly Cys Leu Gly Arg Leu Trp Phe Ser Val
 195 200 205
 Glu Tyr Glu Gln Glu Ala Glu Arg Leu Leu Val Gly Leu Ile Lys Ala
 210 215 220
 Gln His Leu Gln Ala Pro Ser Glu Thr Cys Ser Pro Leu Val Lys Leu
 225 230 235 240
 Tyr Leu Leu Pro Asp Glu Arg Arg Phe Leu Gln Ser Lys Thr Lys Arg
 245 250 255
 Lys Thr Ser Asn Pro Gln Phe Asp Glu His Phe Ile Phe Gln Val Ser
 260 265 270
 Ser Lys Thr Ile Thr Gln Arg Val Leu Lys Phe Ser Val Tyr His Val
 275 280 285
 Asp Arg Gln Arg Lys His Gln Leu Leu Gly Gln Val Leu Phe Pro Leu
 290 295 300
 Lys Asn Glu Thr Leu Val Gly Asp Cys Arg Arg Val Ile Trp Arg Asp
 305 310 315 320
 Leu Glu Ala Glu Ser Leu Glu Pro Pro Ser Glu Phe Gly Asp Leu Gln
 325 330 335
 Phe Cys Leu Ser Tyr Asn Asp Tyr Leu Ser Arg Leu Thr Val Val Val

340 345 350
 Leu Arg Ala Lys Gly Leu Arg Leu Gln Asp Asp Arg Gly Ile Val Ser
 355 360 365
 Val Phe Val Lys Val Ser Leu Met Asn His Asn Lys Phe Val Lys Cys
 370 375 380
 Lys Lys Thr Ser Ala Val Leu Gly Ser Ile Asn Pro Val Tyr Asn Glu
 385 390 395 400
 Thr Phe Ser Phe Lys Ala Asp Ala Thr Glu Leu Asp Thr Ala Ser Leu
 405 410 415
 Ser Leu Thr Val Val Gln Asn Met Glu Gly Asp Lys Ser Gln Gln Leu
 420 425 430
 Gly Arg Val Val Val Gly Pro Tyr Met Tyr Thr Arg Gly Arg Glu Leu
 435 440 445
 Glu His Trp Asp Glu Met Leu Ser Lys Pro Lys Glu Leu Val Lys Arg
 450 455 460
 Trp His Ala Leu Cys Arg Thr Thr Glu Pro
 465 470

<210> 2745

<211> 147

<212> PRT

<213> Homo sapiens

<400> 2745

Met Ile Val Ser Arg Tyr Gly Leu Val Gly Cys Asp Ala Gly Gln Val
 1 5 10 15
 Arg Pro Lys Val Glu Leu Ser Leu Pro Ala Phe Leu Ala Leu Pro Lys
 20 25 30

Lys Glu Phe Lys Asp Lys Pro Glu Val Glu Glu Asn Asn Leu Ile Glu
 35 40 45
 Glu Ala Val Trp Gln Thr Ser Leu Lys Ile Pro Leu Pro Gln Ala Gln
 50 55 60
 Val Arg Glu Arg Gly Gly Gly Ser Ala Gly Ile Ser Ala Ala His Pro
 65 70 75 80
 Ser Gln Leu Cys Thr Ala Gly Val Arg Pro Ser Ser Ala Leu Arg Ala
 85 90 95
 Ser Arg Pro Gly Trp Ser Leu Gln Thr Ala Ala Leu Gln Glu Pro Thr
 100 105 110
 Gly Ala Asp Ser Phe Leu Pro Arg Ser His Lys Thr Ala Val Asp Leu
 115 120 125
 His Ser Ala Arg Ile Pro Leu Tyr Ile His Thr Lys Cys Leu Leu Met
 130 135 140
 Glu Ser Val
 145

<210> 2746

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2746

Met Ser Ser Arg Ser Pro Pro Pro Pro Pro Arg Asp Pro Gly Ala Ser
 1 5 10 15
 Ile Pro Val Pro Thr Thr His Pro Leu His Lys Ser Cys Pro Arg Val
 20 25 30
 Ser His Pro Met Thr Ser Thr Ala Gly Arg Ser His Lys Arg Glu Cys

35 40 45
 Leu Ser Ser Val Ile Ser His Thr Ser Leu Ser Phe Pro Leu Arg Gly
 50 55 60
 Lys Leu Ser Ser Thr Glu Ala Thr Glu Ala Gln Gly Glu Thr Leu Thr
 65 70 75 80
 Val Cys Leu Trp Gly Lys Ala Trp Pro Gln Glu Gly Leu Pro Cys Trp
 85 90 95
 Pro Leu Gln Trp Gly
 100

<210> 2747

<211> 631

<212> PRT

<213> Homo sapiens

<400> 2747

Met His Arg Gly Lys Leu Asp Cys Ala Gly Gly Ala Leu Leu Ser Ser
 1 5 10 15
 Tyr Leu Ile Val Leu Met Ile Leu Leu Ala Val Val Ile Cys Thr Val
 20 25 30
 Ser Ala Ile Met Cys Val Ser Met Arg Gly Thr Ile Cys Asn Pro Gly
 35 40 45
 Pro Arg Lys Ser Met Ser Lys Leu Leu Tyr Ile Arg Leu Val Leu Phe
 50 55 60
 Phe Pro Glu Met Val Trp Ala Ser Leu Gly Ala Ala Trp Val Ala Asp
 65 70 75 80
 Gly Val Gln Cys Asp Arg Thr Val Val Asn Gly Ile Ile Ala Thr Val
 85 90 95

Val Val Ser Trp Ile Ile Ile Ala Ala Thr Val Val Ser Ile Ile Ile
100 105 110
Val Phe Asp Pro Leu Gly Gly Lys Met Ala Pro Tyr Ser Ser Ala Gly
115 120 125
Pro Ser His Leu Asp Ser His Asp Ser Ser Gln Leu Leu Asn Gly Leu
130 135 140
Lys Thr Ala Ala Thr Ser Val Trp Glu Thr Arg Ile Lys Leu Leu Cys
145 150 155 160
Cys Cys Ile Gly Lys Asp Asp His Thr Arg Val Ala Phe Ser Ser Thr
165 170 175
Ala Glu Leu Phe Ser Thr Tyr Phe Ser Asp Thr Asp Leu Val Pro Ser
180 185 190
Asp Ile Ala Ala Gly Leu Ala Leu Leu His Gln Gln Gln Asp Asn Ile
195 200 205
Arg Asn Asn Gln Glu Pro Ala Gln Val Val Cys His Ala Pro Gly Ser
210 215 220
Ser Gln Glu Ala Asp Leu Asp Ala Glu Leu Glu Asn Cys His His Tyr
225 230 235 240
Met Gln Phe Ala Ala Ala Ala Tyr Gly Trp Pro Leu Tyr Ile Tyr Arg
245 250 255
Asn Pro Leu Thr Gly Leu Cys Arg Ile Gly Gly Asp Cys Cys Arg Ser
260 265 270
Arg Thr Thr Asp Tyr Asp Leu Val Gly Gly Asp Gln Leu Asn Cys His
275 280 285
Phe Gly Ser Ile Leu His Thr Thr Gly Leu Gln Tyr Arg Asp Phe Ile
290 295 300
His Val Ser Phe His Asp Lys Val Tyr Glu Leu Pro Phe Leu Val Ala
305 310 315 320
Leu Asp His Arg Lys Glu Ser Val Val Val Ala Val Arg Gly Thr Met

325	330	335
Ser Leu Gln Asp Val Leu Thr Asp Leu Ser Ala Glu Ser Glu Val Leu		
340	345	350
Asp Val Glu Cys Glu Val Gln Asp Arg Leu Ala His Lys Gly Ile Ser		
355	360	365
Gln Ala Ala Arg Tyr Val Tyr Gln Arg Leu Ile Asn Asp Gly Ile Leu		
370	375	380
Ser Gln Ala Phe Ser Ile Ala Pro Glu Tyr Arg Leu Val Ile Val Gly		
385	390	395
His Ser Leu Gly Gly Gly Ala Ala Ala Leu Leu Ala Thr Met Leu Arg		
405	410	415
Ala Ala Tyr Pro Gln Val Arg Cys Tyr Ala Phe Ser Pro Pro Arg Gly		
420	425	430
Leu Trp Ser Lys Ala Leu Gln Glu Tyr Ser Gln Ser Phe Ile Val Ser		
435	440	445
Leu Val Leu Gly Lys Asp Val Ile Pro Arg Leu Ser Val Thr Asn Leu		
450	455	460
Glu Asp Leu Lys Arg Arg Ile Leu Arg Val Val Ala His Cys Asn Lys		
465	470	475
Pro Lys Tyr Lys Ile Leu Leu His Gly Leu Trp Tyr Glu Leu Phe Gly		
485	490	495
Gly Asn Pro Asn Asn Leu Pro Thr Glu Leu Asp Gly Gly Asp Gln Glu		
500	505	510
Val Leu Thr Gln Pro Leu Leu Gly Glu Gln Ser Leu Leu Thr Arg Trp		
515	520	525
Ser Pro Ala Tyr Ser Phe Ser Ser Asp Ser Pro Leu Asp Ser Ser Pro		
530	535	540
Lys Tyr Pro Pro Leu Tyr Pro Pro Gly Arg Ile Ile His Leu Gln Glu		
545	550	555
		560

出証特 2 0 0 4 - 3 0 5 9 6 6 1

					85						90					95			
Cys	Arg	Ser	Gln	Lys	Thr	Gln	Thr	Ser	Asn	Asn	Lys	Lys	His	Gln	Gln				
				100					105					110					
Ile	Ser	Val	Lys	Thr	Ser	Lys	Cys												
			115						120										

<210> 2749

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2749

Met	Trp	Ile	Lys	Thr	Ser	Ser	Leu	Pro	Leu	Ser	Ile	Cys	Gln	Ser	Val				
1				5					10					15					
Trp	Gly	Arg	Leu	Asp	Ala	Tyr	Met	Gln	Arg	Thr	Arg	Lys	Lys	Ser	Leu				
			20					25					30						
Ser	Leu	Ala	Pro	Leu	Gly	Gln	Arg	Met	Gln	Thr	Val	Ile	His	Leu	Phe				
			35					40					45						
Ile	His	Leu	Phe	Ile	His	Leu	Phe	Ile	His	Pro	Ser	Ile	His	Pro	Ser				
		50				55					60								
Ile	His	Pro	Ser	Phe	His	Pro	Ser	Ile	His	Leu	Ser	Asn	Gln	Pro	Ile				
65				70				75					80						
Asn	Gln	Pro	Thr	Asn	Gln	Pro	Thr	Asn	Gln	Pro	Thr	Asn	Gln	Pro	Thr				
				85				90					95						
Asn	Gln	Pro	Ser	Asn	His	Pro	Thr	Thr	His	Ile	Pro	Asn	Gln						
			100					105					110						

<210> 2750

<211> 221

<212> PRT

<213> Homo sapiens

<400> 2750

Met Val Cys Glu Lys Asp Pro Ala Leu Lys Asn Arg Cys His Ile Arg

1 5 10 15

Tyr Met His Leu Phe Ser Thr Ile Lys Tyr Lys Val Ser Ile Ser Val

20 25 30

Ser Asn Ala Leu Gly His Asn Ala Thr Ala Ile Thr Phe Asp Glu Phe

35 40 45

Thr Ile Val Lys Pro Asp Pro Pro Glu Asn Val Val Ala Arg Pro Val

50 55 60

Pro Ser Asn Pro Arg Arg Leu Glu Val Thr Trp Gln Thr Pro Ser Thr

65 70 75 80

Trp Pro Asp Pro Glu Ser Phe Pro Leu Lys Phe Phe Leu Arg Tyr Arg

85 90 95

Pro Leu Ile Leu Asp Gln Trp Gln His Val Glu Leu Ser Asp Gly Thr

100 105 110

Ala His Thr Ile Thr Asp Ala Tyr Ala Gly Lys Glu Tyr Ile Ile Gln

115 120 125

Val Ala Ala Lys Asp Asn Glu Ile Gly Thr Trp Ser Asp Trp Ser Val

130 135 140

Ala Ala His Ala Thr Pro Trp Thr Glu Glu Pro Arg His Leu Thr Thr

145 150 155 160

Glu Ala Gln Ala Ala Glu Thr Thr Thr Ser Thr Thr Ser Ser Leu Ala

165 170 175

Pro Pro Pro Thr Thr Lys Ile Cys Asp Pro Gly Glu Leu Gly Ser Gly

180	185	190
Gly Gly Pro Ser Ala Pro Phe Leu Val Ser Val Pro Ile Thr Leu Ala		
195	200	205
Leu Ala Ala Ala Ala Ala Thr Ala Ser Ser Leu Leu Ile		
210	215	220

<210> 2751

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2751

Met Trp Ser Arg Arg Gly Leu Gly Val Ser Arg Ala Pro Leu His Leu		
1	5	10
Leu Leu Gly Val Trp Gly Pro Ser Gly Arg Thr Gly Gly Gln Arg Lys		
20	25	30
Gly Ala Ser Leu Ala Arg Pro Gly Arg Gly Gly Leu Ala Ser Cys Ser		
35	40	45
Val Gly Ala Asn Gly Lys Arg Asp Val Leu Phe Leu Arg Lys Thr Leu		
50	55	60
Thr Asn Thr Val Glu Asp Ile Gln Ile Asp Asn Phe Arg Arg Lys Ser		
65	70	75
Asp Leu Gly Val Gly Ser Pro Asp Trp Lys Asn Leu Leu Ile Asp Val		
85	90	95
Thr Arg Glu Asp His Glu Asn Ser Gln Asn Asn Ser Lys Arg Arg Cys		
100	105	110
Lys Val Asn Cys Glu Thr Asp Gln Arg		
115	120	

<210> 2752

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2752

Met His Asn Glu Val Pro Ala Pro Leu Leu Thr Ala Ser Pro Ile Phe

1 5 10 15

Met Arg Asn Ser Leu Glu Ala Pro Tyr Leu Val Ser Gly Trp Gly Trp

20 25 30

Gly Ser Arg Glu Arg Glu Lys Gly Trp Glu Leu Ile Thr Cys Leu Leu

35 40 45

Glu His Ser Ile Lys Arg Pro Met Ala Pro Tyr Leu Leu Leu Thr Pro

50 55 60

Ala Pro Ser Ser Phe Pro Thr Gln Thr Glu Arg Gly Glu Gly Ser Lys

65 70 75 80

Val Val Gly His Tyr Arg Ala Arg Ala Ile Ile Gly Ala Glu Val Gly

85 90 95

Ser Ser Cys Glu Met Leu Arg Trp Pro Leu Thr Asp Thr Glu Pro Ser

100 105 110

Leu Glu Gln Val Val Asn Thr Thr Pro Phe Ser Ser Pro Glu Gly Gln

115 120 125

Asn Phe

130

<210> 2753

<211> 155

<212> PRT

<213> Homo sapiens

<400> 2753

Met Pro Cys Pro Leu Phe Pro Val Arg Phe Ser Thr Glu Gly His Glu

1 5 10 15

Ala Ala Phe Thr Ile Arg Ile Arg His Pro Pro Asn Pro Arg Leu Tyr

20 25 30

Pro Pro Gly Ser Leu Pro Gln Gly Gly Glu Ala Gly Arg Gly Arg Asp

35 40 45

Ile Leu Glu Pro Ala Leu Val Gly Ser Lys Leu Gly Glu Gly Ser Pro

50 55 60

Gly Arg Gly Tyr Leu Pro Val Pro Leu Ser Gln Pro Ser Leu Ser Ala

65 70 75 80

Pro Asn Pro Val Pro Pro Ile Ser Ala Gln Tyr Asn Ile Ser Ala Leu

85 90 95

Val Thr Ile Ala Thr Lys Thr Phe Leu Arg Tyr Asp Arg Leu Arg Ala

100 105 110

Leu Ile Thr Ser Ile Arg Arg Phe Tyr Pro Thr Val Thr Val Val Ile

115 120 125

Ala Asp Asp Ser Asp Lys Pro Glu Arg Val Ser Gly Pro Tyr Val Glu

130 135 140

His Tyr Leu Met Pro Phe Gly Lys Val Cys Ser

145 150 155

<210> 2754

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2754

Met Glu Phe Arg Ser Cys Cys Pro Gly Trp Ser Ala Met Ala Arg Ser
1 5 10 15
Trp Leu Thr Ala Thr Ser Ile Ser Gln Val Gln Gly Phe Ser Cys Pro
20 25 30
Ser Leu Pro Asn Ser Trp Asp Tyr Arg His Val Pro Pro Arg Pro Ala
35 40 45
Asn Phe Val Phe Leu Val Glu Thr Gly Phe Phe His Val Gly Gln Thr
50 55 60
Ala Cys Glu Leu Pro Thr Ser Gly Asp Met Leu Ala Ser Ala Phe Gln
65 70 75 80
Ser Ala Gly Ile Thr Gly Val Asn His His Gly Trp Pro Ile Ile Ile
85 90 95
Ile Ile Arg Asp Gly Val Leu Leu Leu Leu Pro Ser Leu Glu Cys Asn
100 105 110
Gly Ala Ile Ser Ala His Cys Lys Leu His Leu Leu Asp Pro Ser Asp
115 120 125
Ser Pro Ala Ser Ala Ser
130

<210> 2755

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2755

Met Trp Glu Phe Ile Tyr Leu Phe Ile Glu Thr Glu Ser His Ser Val
 1 5 10 15
 Thr Gln Ala Gly Val Gln Trp Cys Asn Leu Ser Ser Leu Gln Pro Pro
 20 25 30
 Pro Pro Trp Phe Lys Gln Phe Ser Cys Leu Ser Phe Pro Ser Ser Trp
 35 40 45
 Asn Tyr Arg His Leu Pro Pro Cys Pro Ala Asn Phe Leu Tyr Phe Leu
 50 55 60
 Tyr Phe Phe Phe Phe Leu Arg Trp Ser Leu Ser Val Leu Pro Lys Leu
 65 70 75 80
 Glu Tyr Ser Gly Val Ile Ser Ala His Cys Asn Phe Cys Leu Pro Gly
 85 90 95
 Ser Ser Asn Ser Ser Cys Leu Ser Leu Pro Ser Arg Trp Asn Tyr Arg
 100 105 110
 Cys Pro Leu Pro Cys Leu Ala Asn Phe Cys Ile Phe
 115 120

<210> 2756

<211> 281

<212> PRT

<213> Homo sapiens

<400> 2756

Met Gly Arg Arg Asn Arg Ser Leu Ile Ala Ser Gly Leu Tyr Gly Tyr
 1 5 10 15
 Asn Ala Thr Leu Val Gly Val Leu Met Ala Val Phe Ser Asp Lys Gly
 20 25 30

出証特 2 0 0 4 - 3 0 5 9 6 6 1

260 265 270
Lys Lys Arg Met Val Glu Ser Pro Leu
275 280

<210> 2757

<211> 174

<212> PRT

<213> Homo sapiens

<400> 2757

Met Ala Thr Lys Asn Glu Lys Phe His Thr Trp Pro Ala Ser Ser Ser
1 5 10 15
Trp Trp Thr Val Leu Pro Glu Ser Ser Leu Phe Ala Leu Pro Ser Glu
20 25 30
Leu Val Ile Asp Phe Thr Pro Gly Pro Leu Val Met Gly Asn Pro Leu
35 40 45
Leu Lys Gln Gln Gly Pro Arg Leu Thr Gly Pro Gly Leu Arg Pro Gly
50 55 60
Gly Asn Asp Asp Phe Thr Leu Met Ala Lys Leu Pro Leu Thr Pro Asp
65 70 75 80
Gly Gly Ser Glu Ser Ser Ser Leu Cys Gly Tyr Cys Gly Leu Lys Ala
85 90 95
Lys Arg Phe Ser Trp Arg Arg His Gln Ser Leu Lys Cys Thr Arg Trp
100 105 110
Ala Gly Pro Ser Thr Gly Thr Ser Thr Pro His Ser Cys Pro Val Pro
115 120 125
Val Ile Pro Ala Leu Trp Glu Ala Glu Ala Gly Arg Ser Leu Glu Val
130 135 140

Arg Ser Ser Arg Pro Ala Ser Pro Thr Trp Arg Asn Pro Met Ser Thr
 145 150 155 160
 Lys Lys Ile Gln Lys Leu Ala Gly Arg Gly Gly Ala His Leu
 165 170

<210> 2758

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2758

Met Leu Gln Gly Ser Lys Leu Glu Leu Pro Leu Trp Leu Ala Lys Gly
 1 5 10 15
 Leu Phe Asp Asn Lys Arg Arg Ile Leu Ser Val Glu Leu Pro Lys Ile
 20 25 30
 Tyr Gln Glu Gly Trp Arg Thr Val Phe Ser Ala Asp Pro Asn Val Val
 35 40 45
 Asp Leu His Lys Met Gly Pro His Phe Tyr Gly Phe Gly Ser Gln Leu
 50 55 60
 Leu His Phe Asp Ser Pro Glu Asn Ala Asp Ile Ser Gln Ser Leu Leu
 65 70 75 80
 Gln Ala Ser Asn Gly Cys Glu Asn Leu Trp Cys Cys Thr Cys Leu Lys
 85 90 95
 Ser Gln Pro Gln Ile Leu Leu Leu Pro Arg Thr Val Tyr Asp Leu
 100 105 110

<210> 2759

<211> 565

<212> PRT

<213> Homo sapiens

<400> 2759

Met Asp Pro Pro Asp Leu Leu Ser Val Glu Leu Ser Thr Ser Arg Pro

1 5 10 15

Pro Gln His Leu Gly Gly Val Lys Arg Glu Pro Pro Pro Arg Pro Pro

20 25 30

Gln Pro Ala Phe Phe Thr Gln Lys Pro Thr Tyr Asp Pro Val Ser Glu

35 40 45

Asp Gln Asp Pro Leu Ser Ser Asp Phe Lys Arg Leu Gly Leu Arg Lys

50 55 60

Pro Gly Leu Pro Arg Gly Leu Trp Leu Ala Lys Pro Ser Ala Arg Val

65 70 75 80

Pro Gly Thr Lys Ala Ser Arg Gly Ser Gly Ala Glu Val Thr Leu Ile

85 90 95

Asp Phe Gly Glu Glu Pro Val Val Pro Ala Leu Arg Pro Cys Ala Pro

100 105 110

Ser Leu Ala Gln Leu Ala Met Asp Ala Cys Ser Leu Leu Asp Glu Thr

115 120 125

Pro Pro Gln Ser Pro Thr Arg Ala Leu Pro Arg Pro Leu His Pro Thr

130 135 140

Pro Val Val Asp Trp Asp Ala Arg Pro Leu Pro Pro Pro Ala Tyr

145 150 155 160

Asp Asp Val Ala Gln Asp Glu Asp Asp Phe Glu Ile Cys Ser Ile Asn

165 170 175

Ser Thr Leu Val Gly Ala Gly Val Pro Ala Gly Pro Ser Gln Gly Gln

180 185 190

Thr Asn Tyr Ala Phe Val Pro Glu Gln Ala Arg Pro Pro Pro Pro Leu
 195 200 205
 Glu Asp Asn Leu Phe Leu Pro Pro Gln Gly Gly Gly Lys Pro Pro Ser
 210 215 220
 Ser Ala Gln Thr Ala Glu Ile Phe Gln Ala Leu Gln Gln Glu Cys Met
 225 230 235 240
 Arg Gln Leu Gln Ala Pro Ala Gly Ser Pro Ala Pro Ser Pro Ser Pro
 245 250 255
 Gly Gly Asp Asp Lys Pro Gln Val Pro Pro Arg Val Pro Ile Pro Pro
 260 265 270
 Arg Pro Thr Arg Pro His Val Gln Leu Ser Pro Ala Pro Pro Gly Glu
 275 280 285
 Glu Glu Thr Ser Gln Trp Pro Gly Pro Ala Ser Pro Pro Arg Val Pro
 290 295 300
 Pro Arg Glu Pro Leu Ser Pro Gln Gly Ser Arg Thr Pro Ser Pro Leu
 305 310 315 320
 Val Pro Pro Gly Ser Ser Pro Leu Pro Pro Arg Leu Ser Ser Ser Pro
 325 330 335
 Gly Lys Thr Met Pro Thr Thr Gln Ser Phe Ala Ser Asp Pro Lys Tyr
 340 345 350
 Ala Thr Pro Gln Val Ile Gln Ala Pro Gly Pro Arg Ala Gly Pro Cys
 355 360 365
 Ile Leu Pro Ile Val Arg Asp Gly Lys Lys Val Ser Ser Thr His Tyr
 370 375 380
 Tyr Leu Leu Pro Glu Arg Pro Ser Tyr Leu Glu Arg Tyr Gln Arg Phe
 385 390 395 400
 Leu Arg Glu Ala Gln Ser Pro Glu Glu Pro Thr Pro Leu Pro Val Pro
 405 410 415
 Leu Leu Leu Pro Pro Pro Ser Thr Pro Ala Pro Ala Ala Pro Thr Ala

420 425 430
 Thr Val Arg Pro Met Pro Gln Ala Ala Leu Asp Pro Lys Ala Asn Phe
 435 440 445
 Ser Thr Asn Asn Ser Asn Pro Gly Ala Arg Pro Pro Pro Pro Arg Ala
 450 455 460
 Thr Ala Arg Leu Pro Gln Arg Gly Cys Pro Gly Asp Gly Pro Glu Ala
 465 470 475 480
 Gly Arg Pro Ala Asp Lys Ile Gln Met Leu Gln Ala Met Val His Gly
 485 490 495
 Val Thr Thr Glu Glu Cys Gln Ala Ala Leu Gln Cys His Gly Trp Ser
 500 505 510
 Val Gln Arg Ala Ala Gln Tyr Leu Lys Val Glu Gln Leu Phe Gly Leu
 515 520 525
 Gly Leu Arg Pro Arg Gly Glu Cys His Lys Val Leu Glu Met Phe Asp
 530 535 540
 Trp Asn Leu Glu Gln Ala Gly Cys His Leu Leu Gly Ser Trp Gly Pro
 545 550 555 560
 Ala His His Lys Arg
 565

<210> 2760

<211> 402

<212> PRT

<213> Homo sapiens

<400> 2760

Met Cys Glu Leu Asp Ile Leu His Asp Ser Leu Tyr Gln Phe Cys Pro
 1 5 10 15

Glu Leu His Leu Lys Arg Leu Asn Ser Leu Thr Leu Ala Cys His Ala
 20 25 30
 Leu Leu Asp Cys Lys Thr Leu Thr Leu Thr Glu Leu Gly Arg Asn Leu
 35 40 45
 Pro Thr Lys Ala Arg Thr Lys His Asn Ile Lys Arg Ile Asp Arg Leu
 50 55 60
 Leu Gly Asn Arg His Leu His Lys Glu Arg Leu Ala Val Tyr Arg Trp
 65 70 75 80
 His Ala Ser Phe Ile Cys Ser Gly Asn Thr Met Pro Ile Val Leu Val
 85 90 95
 Asp Trp Ser Asp Ile Arg Glu Gln Lys Arg Leu Met Val Leu Arg Ala
 100 105 110
 Ser Val Ala Leu His Gly Arg Ser Val Thr Leu Tyr Glu Lys Ala Phe
 115 120 125
 Pro Leu Ser Glu Gln Cys Ser Lys Lys Ala His Asp Gln Phe Leu Ala
 130 135 140
 Asp Leu Ala Ser Ile Leu Pro Ser Asn Thr Thr Pro Leu Ile Val Ser
 145 150 155 160
 Asp Ala Gly Phe Lys Val Pro Trp Tyr Lys Ser Val Glu Lys Leu Gly
 165 170 175
 Trp Tyr Trp Leu Ser Arg Val Arg Gly Lys Val Gln Tyr Ala Asp Leu
 180 185 190
 Gly Ala Glu Asn Trp Lys Pro Ile Ser Asn Leu His Asp Met Ser Ser
 195 200 205
 Ser His Ser Lys Thr Leu Gly Tyr Lys Arg Leu Thr Lys Ser Asn Pro
 210 215 220
 Ile Ser Cys Gln Ile Leu Leu Tyr Lys Ser Arg Ser Lys Gly Arg Lys
 225 230 235 240
 Asn Gln Arg Ser Thr Arg Thr His Cys His His Pro Ser Pro Lys Ile

	245		250		255
Tyr Ser Ala Ser Ala Lys Glu Pro Trp Val Leu Ala Thr Asn Leu Pro					
	260		265		270
Val Glu Ile Arg Thr Pro Lys Gln Leu Val Asn Ile Tyr Ser Lys Arg					
	275		280		285
Met Gln Ile Glu Glu Thr Phe Arg Asp Leu Lys Ser Pro Ala Tyr Gly					
	290		295		300
Leu Gly Leu Arg His Ser Arg Thr Ser Ser Ser Glu Arg Phe Asp Ile					
305		310		315	320
Met Leu Leu Ile Ala Leu Met Leu Gln Leu Thr Cys Trp Leu Ala Gly					
	325		330		335
Val His Ala Gln Lys Gln Gly Trp Asp Lys His Phe Gln Ala Asn Thr					
	340		345		350
Val Arg Asn Arg Asn Val Leu Ser Thr Val Arg Leu Gly Met Glu Val					
	355		360		365
Leu Arg His Ser Gly Tyr Thr Ile Thr Arg Glu Asp Leu Leu Val Ala					
	370		375		380
Ala Thr Leu Leu Ala Gln Asn Leu Phe Thr His Gly Tyr Ala Leu Gly					
385		390		395	400
Lys Leu					

<210> 2761

<211> 745

<212> PRT

<213> Homo sapiens

<400> 2761

Met	Lys	Gly	Phe	Lys	Leu	Ser	Cys	Thr	Ala	Ser	Asn	Ser	Asn	Arg	Ser
1				5					10					15	
Thr	Pro	Ala	Cys	Ser	Pro	Ile	Leu	Arg	Lys	Arg	Ser	Arg	Ser	Pro	Thr
				20				25						30	
Pro	Gln	Asn	Gln	Asp	Gly	Asp	Thr	Met	Val	Glu	Lys	Gly	Ser	Asp	His
				35				40						45	
Ser	Ser	Asp	Lys	Ser	Pro	Ser	Thr	Pro	Glu	Gln	Gly	Val	Gln	Arg	Ser
				50				55						60	
Cys	Ser	Ser	Gln	Ser	Gly	Arg	Ser	Gly	Gly	Lys	Asn	Ser	Lys	Ser	His
65								70						75	
Lys	Arg	Leu	Ser	Lys	Lys	Ser	Gln	Ser	Trp	Tyr	Asn	Val	Leu	Ser	Pro
								85						90	
Thr	Tyr	Lys	Gln	Arg	Asn	Glu	Asp	Phe	Arg	Lys	Leu	Phe	Lys	Gln	Leu
								100						105	
Pro	Asp	Thr	Glu	Arg	Leu	Ile	Val	Asp	Tyr	Ser	Cys	Ala	Leu	Gln	Arg
								115						120	
Asp	Ile	Leu	Leu	Gln	Gly	Arg	Leu	Tyr	Leu	Ser	Glu	Asn	Trp	Ile	Cys
								130						135	
Phe	Tyr	Ser	Asn	Ile	Phe	Arg	Trp	Glu	Thr	Leu	Leu	Thr	Val	Arg	Leu
								145						150	
Lys	Asp	Ile	Cys	Ser	Met	Thr	Lys	Glu	Lys	Thr	Ala	Arg	Leu	Ile	Pro
								155						160	
								165						170	
Asn	Ala	Ile	Gln	Val	Cys	Thr	Asp	Ser	Glu	Lys	His	Phe	Phe	Thr	Ser
								180						185	
Phe	Gly	Ala	Arg	Asp	Arg	Thr	Tyr	Met	Met	Met	Phe	Arg	Leu	Trp	Gln
								195						200	
Asn	Ala	Leu	Leu	Glu	Lys	Pro	Leu	Cys	Pro	Lys	Glu	Leu	Trp	His	Phe
								205						210	
								215						220	
Val	His	Gln	Cys	Tyr	Gly	Asn	Glu	Leu	Gly	Leu	Thr	Ser	Asp	Asp	Glu

225 230 235 240
Asp Tyr Val Pro Pro Asp Asp Asp Phe Asn Thr Met Gly Tyr Cys Glu
 245 250 255
Glu Ile Pro Val Glu Glu Asn Glu Val Asn Asp Ser Ser Ser Lys Ser
 260 265 270
Ser Ile Glu Thr Lys Pro Asp Ala Ser Pro Gln Leu Pro Lys Lys Ser
 275 280 285
Ile Thr Asn Ser Thr Leu Thr Ser Thr Gly Ser Ser Glu Ala Pro Val
 290 295 300
Ser Phe Asp Gly Leu Pro Leu Glu Glu Glu Ala Leu Glu Gly Asp Gly
305 310 315 320
Ser Leu Glu Lys Glu Leu Ala Ile Asp Asn Ile Met Gly Glu Lys Ile
 325 330 335
Glu Met Ile Ala Pro Val His Ser Pro Ser Leu Asp Phe Asn Asp Asn
 340 345 350
Glu Asp Ile Pro Thr Glu Leu Ser Asp Ser Ser Asp Thr His Asp Glu
 355 360 365
Gly Glu Val Gln Ala Phe Tyr Glu Asp Leu Ser Gly Arg Gln Tyr Val
 370 375 380
Asn Glu Val Phe Asn Phe Ser Val Asp Lys Leu Tyr Asp Leu Leu Phe
385 390 395 400
Thr Asn Ser Pro Phe Gln Arg Asp Phe Met Glu Gln Arg Arg Phe Ser
 405 410 415
Asp Ile Ile Phe His Pro Trp Lys Lys Glu Glu Asn Gly Asn Gln Ser
 420 425 430
Arg Val Ile Leu Tyr Thr Ile Thr Leu Thr Asn Pro Leu Ala Pro Lys
 435 440 445
Thr Ala Thr Val Arg Glu Thr Gln Thr Met Tyr Lys Ala Ser Gln Glu
 450 455 460

Ser Glu Cys Tyr Val Ile Asp Ala Glu Val Leu Thr His Asp Val Pro
 465 470 475 480
 Tyr His Asp Tyr Phe Tyr Thr Ile Asn Arg Tyr Thr Leu Thr Arg Val
 485 490 495
 Ala Arg Asn Lys Ser Arg Leu Arg Val Ser Thr Glu Leu Arg Tyr Arg
 500 505 510
 Lys Gln Pro Trp Gly Leu Val Lys Thr Phe Ile Glu Lys Asn Phe Trp
 515 520 525
 Ser Gly Leu Glu Asp Tyr Phe Arg His Leu Glu Ser Glu Leu Ala Lys
 530 535 540
 Thr Glu Ser Thr Tyr Leu Ala Glu Met His Arg Gln Ser Pro Lys Glu
 545 550 555 560
 Lys Ala Ser Lys Thr Thr Thr Val Arg Arg Arg Lys Arg Pro His Ala
 565 570 575
 His Leu Arg Val Pro His Leu Glu Glu Val Met Ser Pro Val Thr Thr
 580 585 590
 Pro Thr Asp Glu Asp Val Gly His Arg Ile Lys His Val Ala Gly Ser
 595 600 605
 Thr Gln Thr Arg His Ile Pro Glu Asp Thr Pro Asn Gly Phe His Leu
 610 615 620
 Gln Ser Val Ser Lys Leu Leu Leu Val Ile Ser Cys Val Ile Cys Phe
 625 630 635 640
 Ser Leu Val Leu Leu Val Ile Leu Asn Met Met Leu Phe Tyr Lys Leu
 645 650 655
 Trp Met Leu Glu Tyr Thr Thr Gln Thr Leu Thr Ala Trp Gln Gly Leu
 660 665 670
 Arg Leu Gln Glu Arg Leu Pro Gln Ser Gln Thr Glu Trp Ala Gln Leu
 675 680 685
 Leu Glu Ser Gln Gln Lys Tyr His Asp Thr Glu Leu Gln Lys Trp Arg

690 695 700
 Glu Ile Ile Lys Ser Ser Val Met Leu Leu Asp Gln Met Lys Asp Ser
 705 710 715 720
 Leu Ile Asn Leu Gln Asn Gly Ile Arg Ser Arg Asp Tyr Thr Ser Glu
 725 730 735
 Ser Glu Glu Lys Arg Asn Arg Tyr His
 740 745

<210> 2762

<211> 238

<212> PRT

<213> Homo sapiens

<400> 2762

Met Gln Gly Trp Phe Asn Ile Cys Arg Ser Ile Asn Val Thr His His
 1 5 10 15
 Ile Asn Arg Thr Lys Asp Lys Asn His Met Ile Ile Ser Ile Asp Ala
 20 25 30
 Glu Lys Ala Phe Asn Lys Ile Gln His Arg Phe Met Leu Lys Thr Leu
 35 40 45
 Asn Lys Leu Gly Ile Glu Gly Pro Cys Leu Lys Ile Ile Arg Ala Ile
 50 55 60
 Cys Asp Lys Arg Thr Ala Asn Ile Ile Leu Asn Gly Gln Gln Leu Glu
 65 70 75 80
 Ala Phe Pro Leu Lys Thr Gly Thr Arg Gln Gly Cys Pro Leu Ser Pro
 85 90 95
 Leu Leu Phe Asn Ile Val Leu Glu Val Leu Ala Arg Ala Ile Arg Gln
 100 105 110

Val Lys Glu Ile Lys Gly Ile Gln Ile Gly Arg Glu Glu Val Asn Leu
 115 120 125
 Ser Leu Leu Ala Asp Asp Met Ile Leu Tyr Leu Glu Asn Pro Val Val
 130 135 140
 Ser Ala Gln Arg Pro Leu Lys Leu Ile Asn Asn Phe Ser Lys Val Ser
 145 150 155 160
 Gly Tyr Arg Ile Asn Val Gln Lys Ser Leu Ala Phe Leu Tyr Thr Ser
 165 170 175
 Asn Ser Lys Ala Asp Ser Gln Ile Ser Asn Glu Leu Pro Phe Thr Ile
 180 185 190
 Ala Thr Lys Arg Ile Lys Tyr Leu Gly Ile Gln Leu Thr Arg Glu Val
 195 200 205
 Lys Asp Leu Tyr Lys Glu Asn Tyr Lys Pro Pro Leu Lys Glu Ile Gly
 210 215 220
 Asp Asp Thr Gln Lys Asn Gly Lys Thr Phe Gln Ala His Gly
 225 230 235

<210> 2763

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2763

Met Arg Glu Val Leu Thr Pro Val Arg Ser Pro Gln Phe Gly Ala Ile
 1 5 10 15
 Leu Thr Thr Glu Ile Glu Arg Gly Ser Pro Pro Gly Gln Gly Leu Gly
 20 25 30
 Gln Asp Ile Trp Gly Cys Val Cys Pro Pro Trp Lys Ser Phe Gln Arg

35 40 45
 Asp His Leu Arg Gly Met Leu Pro Ala Ser Gly Gly Pro Gly Thr Ser
 50 55 60
 Ser Pro Val Pro Phe Thr Gly Ile Gln Arg Ser Gly Val Tyr Cys Gly
 65 70 75 80
 Ala Ser Glu Asp Arg Val Leu Gly Ser Ala Ser Ile Lys Asp Asp Ser
 85 90 95
 Gly Cys Leu Leu Arg Thr Pro Ala Ala Tyr Leu Val Val His Leu Leu
 100 105 110
 Gly Ala Val Glu Asp Val Asp His Gly Ala Gln Gly Ser Ala Gln Val
 115 120 125
 Leu Gly Arg Leu Ser Leu Ala Gly Pro Ser Gly Ala Gly Gly Gly Ser
 130 135 140
 Thr His Asp Glu Met Glu Gly Leu Gly Gln Gly Asp Ile Ala Pro Ala
 145 150 155 160
 Ser Asp His Arg

<210> 2764

<211> 351

<212> PRT

<213> Homo sapiens

<400> 2764

Met Lys Lys Lys Asp Tyr Gly Phe Arg Ala Gly Gly Asn Gly Thr Lys
 1 5 10 15
 Lys Asn Leu Gln Phe Val Gly Val Asn Gly Gly Tyr Glu Thr Thr Ser
 20 25 30

Ser Glu Glu Thr Ser Gly Glu Asp Ser Thr Pro Glu Asp Leu Ser Asp
 35 40 45
 Ser Glu Ala Glu Lys Lys Cys Asp Gly Pro Asp His Lys His Val Lys
 50 55 60
 Asp Ala His Leu Thr Cys Glu Ala Gly Gln Gly Ile Pro Glu Gly Thr
 65 70 75 80
 Cys His Ala Ala Gln Glu Ser Gly Pro Gly Glu Glu Val Pro His Ser
 85 90 95
 Lys Ala Glu Arg Tyr Lys Pro Ser Glu Glu Phe Leu Asn Ala Cys Arg
 100 105 110
 Ala Leu Ser Gln His Leu Pro Glu Thr Gly Thr Thr Thr Asp Gln Leu
 115 120 125
 Leu Arg Gln Ser Leu Asn Thr Ile Ser Gln Glu Trp Phe Arg Val Ser
 130 135 140
 Ser Arg Lys Ser Ser Ser Pro Ala Val Val Ala Ser Tyr Leu His Glu
 145 150 155 160
 Val Gln Pro His Ser Pro His Phe Leu Lys Leu Leu Val Asn Leu Ala
 165 170 175
 Asp Arg Asn Gly Asn Thr Ala Leu His Tyr Ser Val Ser His Ser Asn
 180 185 190
 Phe Ser Ile Ala Lys Leu Leu Leu Glu Thr Gly Val Cys Asn Val Asp
 195 200 205
 His Gln Asn Lys Ala Gly Tyr Thr Ala Val Met Ile Thr Pro Leu Ala
 210 215 220
 Ser Ala Glu Thr Asn Glu Asp Met Ala Val Val Trp Lys Leu Leu Arg
 225 230 235 240
 Glu Gly Asn Val Asn Ile Gln Ala Thr Gln Gly Gly Gln Thr Ala Leu
 245 250 255
 Met Leu Gly Val Ser His Asp Arg Glu Asp Met Val Gln Ala Leu Leu

260	265	270
Ser Cys Gln Ala Asp Val Asn Leu Gln Asp His Asp Gly Ser Ser Ala		
275	280	285
Leu Met Leu Ala Cys His His Gly Asn Val Asp Leu Val Arg Leu Leu		
290	295	300
Leu Ala His Pro Ala Cys Asp Ser Ser Leu Thr Asp Lys Ala Gly Arg		
305	310	315
Thr Ala Leu Ser Ile Ala Leu Lys Ser Pro Thr His Met Glu Ile Ala		
325	330	335
Gly Leu Leu Arg Ala His Ala Glu Gln Gly Arg Ser Leu Gly Leu		
340	345	350

<210> 2765

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2765

Met Ser His Arg Ala Trp Pro Gly Ser Ser Ser Ser Ser Thr Gln Ile		
1	5	10
Cys Leu Thr Leu Ser Thr Leu Trp Leu Arg Ser Ser Phe Phe Phe Leu		
20	25	30
Phe Cys Ser Ala His Leu Ala Tyr Asp Phe Asn His His Phe Ser Glu		
35	40	45
His Gly Ser Gly Ser Thr Ser Leu Leu Asn Phe Arg Pro Thr Ser Leu		
50	55	60
Ala Thr Trp Trp Arg Pro Pro Gln Asn Asp Leu Leu Leu Pro Lys Ser		
65	70	75
		80

Arg Leu Ser Lys Leu Gln Ser Val Ser Pro Pro Glu Ala Phe Pro Gln
 85 90 95
 Ala Phe Leu Phe Leu Pro Ser Ile Pro His Ser Pro Thr Leu Pro Cys
 100 105 110
 Gln Lys Pro Ala Gly Gln Leu Gly Phe Leu Phe Val Leu Phe Phe Leu
 115 120 125
 Tyr Phe Ala Gly Ala
 130

<210> 2766

<211> 371

<212> PRT

<213> Homo sapiens

<400> 2766

Met His Gln Arg Ile Tyr Ser Gly Glu Lys His Tyr Gly Cys Lys Glu
 1 5 10 15
 Asn Gly Glu Ala Phe Ser Ser Gly His Gln Leu Thr Ala Pro His Thr
 20 25 30
 Phe Glu Ser Val Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala
 35 40 45
 Phe Ser Val His Gly Arg Leu Thr Arg His Gln Gly Ile His Ser Gly
 50 55 60
 Lys Lys Pro Tyr Glu Cys Asn Lys Cys Gly Lys Ser Phe Arg Leu Asn
 65 70 75 80
 Ser Ser Leu Lys Ile His Gln Asn Ile His Thr Gly Glu Lys Pro Tyr
 85 90 95
 Lys Cys Lys Glu Cys Gly Lys Ala Phe Ser Gln Arg Ala His Leu Ala

100	105	110
His His Asn Arg Ile His Thr Gly Tyr Lys Pro Phe Glu Cys Lys Glu		
115	120	125
Cys Gly Lys Ser Phe Arg Cys Ala Ser Tyr Leu Val Ile His Glu Arg		
130	135	140
Ile His Thr Gly Glu Lys Pro Tyr Val Cys Gln Glu Cys Gly Lys Gly		
145	150	155
Phe Ser Tyr Ser His Lys Leu Thr Ile His Arg Arg Val His Thr Gly		
165	170	175
Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe Ser Val Ser		
180	185	190
Gly Gln Leu Thr Gln His Leu Ser Ile His Ser Gly Lys Arg Pro Phe		
195	200	205
Glu Cys Asn Lys Cys Gly Lys Ser Phe Arg Phe Ile Ser Val Leu Lys		
210	215	220
Ala His Gln Asn Ile His Gly Ala Glu Lys Pro Tyr Glu Cys Lys Glu		
225	230	235
Cys Gly Lys Ala Phe Arg His Ala Thr Ser Leu Ile Tyr His Asp Arg		
245	250	255
Thr His Ala Gly Glu Lys Ser Tyr Glu Cys Lys Glu Cys Gly Glu Thr		
260	265	270
Phe Ser His Ala Ser His Leu Ile Ile His Glu Arg Ile His Thr Ser		
275	280	285
Asp Lys Pro Tyr Glu Cys Lys Arg Cys Gly Lys Ala Phe His Cys Ala		
290	295	300
Ser Tyr Leu Val Arg His Glu Ser Val His Ala Asp Gly Asn Pro Tyr		
305	310	315
Met Cys Glu Glu Cys Gly Lys Ala Phe Asn Ser Ser His Glu Leu Ser		
325	330	335

Ile His His Arg Val His Thr Gly Glu Lys Pro Phe Lys Cys Asn Lys

340

345

350

Cys Arg Arg Ser Phe Arg Leu Arg Ser Ile Leu Glu Val His Gln Arg

355

360

365

Ile His Ile

370

<210> 2767

<211> 479

<212> PRT

<213> Homo sapiens

<400> 2767

Met Val Ser Lys Asp Thr Gly Lys Cys Ile Leu Thr Thr Ser Glu Ser

1

5

10

15

Glu Val Glu Pro Ala Ala Cys Leu Ala Leu Glu Met Lys Tyr Ala Leu

20

25

30

Asp Pro Asn Arg Gln Ile Lys Lys Arg Asn Lys Ala Leu Gln Val Arg

35

40

45

Phe Lys Asp Ile Cys Glu Ala Gln Asn Glu Gln Arg Asp Thr Gln Leu

50

55

60

Ser Ser Gly Gln Leu Gly Glu Lys Arg Glu Ala Lys Pro Val Ser Cys

65

70

75

80

Arg Ala Ala Tyr Arg Lys Tyr Met Thr Val Pro Ala Arg Arg Ser Ile

85

90

95

Pro Asn Val Thr Lys Ser Thr Gly Val Gln Thr Ser Pro Asp Leu Lys

100

105

110

Lys Cys Tyr Gln Thr Phe Pro Leu Asp Arg Lys Lys Gly Asn Leu Lys

115	120	125
Ser Leu Pro Ala Ala Asp Pro Phe Lys Ser Gln Asn Asn Gly Phe Leu		
130	135	140
Thr Asp Ala Lys Glu Lys Asn Glu Ala Gly Pro Met Glu Glu Ala Arg		
145	150	155
Pro Cys Gly Ala Gly Arg Val His Lys Thr Thr Ala Leu Val Phe His		
165	170	175
Ser Asn Gln His Met Asn Thr Val Asp Gln Pro Leu Gly Val Asn Cys		
180	185	190
Thr Glu Pro Cys Lys Ser Pro Glu Pro Leu Ser Tyr Gly Glu Ala Ala		
195	200	205
Leu Gln Asn Ser Thr Arg Pro Pro Ser Glu Glu Pro Asp Tyr Gln Leu		
210	215	220
Leu Gly Arg Ala Lys Gln Asp Arg Gly Arg Pro Asn Ser Glu Glu Pro		
225	230	235
Ala Pro Pro Ala Leu Arg Arg Val Phe Lys Thr Glu Val Ala Thr Val		
245	250	255
Tyr Ala Pro Ala Leu Ser Ala Arg Ala Pro Glu Pro Gly Leu Ser Asp		
260	265	270
Ser Ala Ala Ala Ser Gln Trp Ser Leu Cys Pro Ala Asp Asp Glu Arg		
275	280	285
Arg Arg Ala Thr His Leu Asn Gly Leu Gln Ala Pro Ser Glu Thr Ala		
290	295	300
Leu Ala Cys Ser Pro Pro Met Gln Cys Leu Ser Pro Glu Cys Ser Glu		
305	310	315
Gln Pro Ser Gln Thr His Thr Pro Pro Gly Leu Gly Asn Gln Pro Ser		
325	330	335
Pro Thr Ala Val Ala Ala Gly Glu Glu Cys Gln Arg Ile Val Pro His		
340	345	350

Thr Glu Val Val Asp Leu Lys Ala Gln Leu Gln Met Met Glu Asn Leu
 355 360 365
 Ile Ser Ser Ser Gln Glu Thr Ile Lys Val Leu Leu Gly Val Ile Gln
 370 375 380
 Glu Leu Glu Lys Gly Glu Ala His Arg Glu Gly Leu Ser Tyr Arg Thr
 385 390 395 400
 Gly Gln Asp Thr Ala Asn Cys Asp Thr Cys Arg Asn Ser Ala Cys Ile
 405 410 415
 Ile Tyr Ser Val Glu Leu Asp Phe Lys Gln Gln Glu Asp Lys Leu Gln
 420 425 430
 Pro Val Leu Arg Lys Leu His Pro Ile Glu Glu Thr Gln Val Ile Pro
 435 440 445
 Ser Pro Tyr Ser Gln Glu Thr Tyr Ser Ser Thr Pro Lys Gln Lys Ser
 450 455 460
 Lys Thr Glu Ser Lys Lys His Gly Arg Trp Lys Leu Trp Phe Leu
 465 470 475

<210> 2768

<211> 346

<212> PRT

<213> Homo sapiens

<400> 2768

Met Val Leu Val His Val Gly Tyr Leu Val Leu Pro Val Phe Gly Ser
 1 5 10 15
 Val Arg Asn Arg Gly Ala Pro Phe Gln Arg Ser Gln His Pro His Ala
 20 25 30
 Thr Ser Cys Arg His Phe His Leu Gly Pro Pro Gln Pro Gln Gln Leu

35	40	45
Ala Pro Asp Phe Pro Leu	Ala His Pro Val Gln Ser Gln Pro Gly Leu	
50	55	60
Ser Ala His Met Ala Pro Ala His Gln His Ser Gly Ala Leu His Gln		
65	70	75
Ser Leu Thr Pro Leu Pro Thr Leu Gln Phe Gln Asp Val Thr Gly Pro		
85	90	95
Ser Phe Leu Pro Gln Ala Leu His Gln Gln Tyr Leu Leu Gln Gln Gln		
100	105	110
Leu Leu Glu Ala Gln His Arg Arg Leu Val Ser His Pro Arg Arg Ser		
115	120	125
Gln Glu Arg Val Ser Val His Pro His Arg Leu His Pro Ser Phe Asp		
130	135	140
Phe Gly Gln Leu Gln Thr Pro Gln Pro Arg Tyr Leu Ala Glu Gly Thr		
145	150	155
Asp Trp Asp Leu Ser Val Asp Ala Gly Leu Ser Pro Ala Gln Phe Gln		
165	170	175
Val Arg Pro Ile Pro Gln His Tyr Gln His Tyr Leu Ala Thr Pro Arg		
180	185	190
Met His His Phe Pro Arg Asn Ser Ser Ser Thr Gln Met Val Val His		
195	200	205
Glu Ile Arg Asn Tyr Pro Tyr Pro Gln Leu His Phe Leu Ala Leu Gln		
210	215	220
Gly Leu Asn Pro Ser Arg His Thr Ser Ala Val Arg Glu Ser Tyr Glu		
225	230	235
Glu Leu Leu Gln Leu Glu Asp Arg Leu Gly Asn Val Thr Arg Gly Ala		
245	250	255
Val Gln Asn Thr Ile Glu Arg Phe Thr Phe Pro His Lys Tyr Lys Lys		
260	265	270

Arg Arg Pro Gln Asp Gly Lys Gly Lys Lys Asp Glu Gly Glu Glu Ser
 275 280 285
 Asp Thr Asp Glu Lys Cys Thr Ile Cys Leu Ser Met Leu Glu Asp Gly
 290 295 300
 Glu Asp Val Arg Arg Leu Pro Cys Met His Leu Phe His Gln Leu Cys
 305 310 315 320
 Val Asp Gln Trp Leu Ala Met Ser Lys Lys Cys Pro Ile Cys Arg Val
 325 330 335
 Asp Ile Glu Thr Gln Leu Gly Ala Asp Ser
 340 345

<210> 2769

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2769

Met Gln Gly Arg Val Gly Leu Ala Pro Ala Phe Ser Ser Arg Pro Arg
 1 5 10 15
 Ala Arg Gly Gln Trp Gly Arg Gly Trp Val Arg Lys Asp Glu Gly Arg
 20 25 30
 Gln Gly Leu Pro Arg Asp Arg Thr Gln Gly Gly Pro Gly Ile Arg Arg
 35 40 45
 Gly Ala His Leu Leu Leu Glu Leu Val Glu Leu Gly Ser Glu Val Gly
 50 55 60
 His Gln Leu His Gly Gly Val Glu Leu Val Leu Glu Asn Pro Asn Leu
 65 70 75 80
 Ile Leu Leu Pro Leu Ala Leu Ile Ala Asp Lys Gly His Gly Pro His

	85	90	95
Pro Gly Glu Pro Val Gln Val Leu Val Leu Lys Asn Ile Thr Ser Gly			
100	105	110	
Leu Ser Arg Arg Gly Pro Gly Leu Glu Arg Pro His Leu Glu Lys Gln			
115	120	125	

<210> 2770

<211> 537

<212> PRT

<213> Homo sapiens

<400> 2770

Met Asp Leu Phe Asp Phe Tyr Glu Gln Met Asp Lys Asp Glu Glu Glu			
1	5	10	15
Glu Glu Glu Thr Gln Thr Val Ser Phe Glu Val Lys Gln Glu Met Ile			
20	25	30	
Glu Glu Leu Gln Lys Arg Cys Ile His Leu Glu Tyr Pro Leu Leu Ala			
35	40	45	
Glu Tyr Asp Phe Arg Asn Asp Ser Val Asn Pro Asp Ile Asn Ile Asp			
50	55	60	
Leu Lys Pro Thr Ala Val Leu Arg Pro Tyr Gln Glu Lys Ser Leu Arg			
65	70	75	80
Lys Met Phe Gly Asn Gly Arg Ala Arg Ser Gly Val Ile Val Leu Pro			
85	90	95	
Cys Gly Ala Gly Lys Ser Leu Val Gly Val Thr Ala Ala Tyr Thr Val			
100	105	110	
Arg Lys Arg Cys Leu Val Leu Gly Asn Ser Ala Val Ser Val Glu Gln			
115	120	125	

Trp Lys Ala Gln Phe Lys Met Trp Ser Thr Ile Asp Asp Ser Gln Ile
 130 135 140
 Cys Arg Phe Thr Ser Asp Ala Lys Asp Lys Pro Ile Gly Cys Ser Val
 145 150 155 160
 Ala Ile Ser Thr Tyr Ser Met Leu Gly His Thr Thr Lys Arg Ser Trp
 165 170 175
 Glu Ala Glu Arg Val Met Glu Trp Leu Lys Thr Gln Glu Trp Gly Leu
 180 185 190
 Met Ile Leu Asp Glu Val His Thr Ile Pro Ala Lys Met Phe Arg Arg
 195 200 205
 Val Leu Thr Ile Val Gln Ala His Cys Lys Leu Gly Leu Thr Ala Thr
 210 215 220
 Leu Val Arg Glu Asp Asp Lys Ile Val Asp Leu Asn Phe Leu Ile Gly
 225 230 235 240
 Pro Lys Leu Tyr Glu Ala Asn Trp Met Glu Leu Gln Asn Asn Gly Tyr
 245 250 255
 Ile Ala Lys Val Gln Cys Ala Glu Val Trp Cys Pro Met Ser Pro Glu
 260 265 270
 Phe Tyr Arg Glu Tyr Val Ala Ile Lys Thr Lys Lys Arg Ile Leu Leu
 275 280 285
 Tyr Thr Met Asn Pro Asn Lys Phe Arg Ala Cys Gln Phe Leu Ile Lys
 290 295 300
 Phe His Glu Arg Arg Asn Asp Lys Ile Ile Val Phe Ala Asp Asn Val
 305 310 315 320
 Phe Ala Leu Lys Glu Tyr Ala Ile Arg Leu Asn Lys Pro Tyr Ile Tyr
 325 330 335
 Gly Pro Thr Ser Gln Gly Glu Arg Met Gln Ile Leu Gln Asn Phe Lys
 340 345 350
 His Asn Pro Lys Ile Asn Thr Ile Phe Ile Ser Lys Val Gly Asp Thr

355 360 365
Ser Phe Asp Leu Pro Glu Ala Asn Val Leu Ile Gln Ile Ser Ser His
370 375 380
Gly Gly Ser Arg Arg Gln Glu Ala Gln Arg Leu Gly Arg Val Leu Arg
385 390 395 400
Ala Lys Lys Gly Met Val Ala Glu Glu Tyr Asn Ala Phe Phe Tyr Ser
405 410 415
Leu Val Ser Gln Asp Thr Gln Glu Met Ala Tyr Ser Thr Lys Arg Gln
420 425 430
Arg Phe Leu Val Asp Gln Gly Tyr Ser Phe Lys Val Ile Thr Lys Leu
435 440 445
Ala Gly Met Glu Glu Glu Asp Leu Ala Phe Ser Thr Lys Glu Glu Gln
450 455 460
Gln Gln Leu Leu Gln Lys Val Leu Ala Ala Thr Asp Leu Asp Ala Glu
465 470 475 480
Glu Glu Val Val Ala Gly Glu Phe Gly Ser Arg Ser Ser Gln Ala Ser
485 490 495
Arg Arg Phe Gly Thr Met Ser Ser Met Ser Gly Ala Asp Asp Thr Val
500 505 510
Tyr Met Glu Tyr His Ser Ser Arg Ser Lys Ala Pro Ser Lys His Val
515 520 525
His Pro Leu Phe Lys Arg Phe Arg Lys
530 535

<210> 2771

<211> 1184

<212> PRT

<213> Homo sapiens

<400> 2771

Met Ser His Ser His Pro Ala Gly Leu Leu Ala Ala Tyr Asn Ser Leu
 1 5 10 15
 Met Asp Lys His Leu Ala Gly Tyr Phe Asn Asn Thr Arg Ile Arg Arg
 20 25 30
 His Leu Leu Arg Ser Gly Leu Ile Thr Arg Ser Gly Arg Ile Leu Ser
 35 40 45
 Glu Lys Glu Tyr Lys Leu Asn Met Met Lys Arg Asp His Gln Lys Tyr
 50 55 60
 Ile Arg Glu Cys Leu Ala Gln Ala Ile Phe His Lys Val Leu Asp Met
 65 70 75 80
 Glu Arg Tyr His Gln Leu Glu Ile Lys Lys Lys Leu Glu Thr Leu Ala
 85 90 95
 Arg Lys Glu Arg Ile Gln Arg Phe Lys Gly Glu His Thr Arg Arg Ser
 100 105 110
 Val Glu Asn Asn Met Pro Ile Leu Ser Pro His Pro Pro Val Gly Pro
 115 120 125
 Lys Ser Asn Arg Gly His Ser Val Leu Val Asp Glu Gly His Ser Ser
 130 135 140
 Pro Leu Ala Leu Thr Ala Pro Arg Pro Tyr Thr Ala Pro Gly Asn Met
 145 150 155 160
 Gln Pro Pro Ile Arg Leu Gln Pro Leu Pro Ser Asn Pro Ala Val Glu
 165 170 175
 Thr Val Pro Lys Val Thr Ser Arg Ser Arg Ser Lys Thr Ser Leu Leu
 180 185 190
 Glu Asn Glu Ala Leu Phe Pro Ile Gly Gly Lys Lys Ala Val Met Lys
 195 200 205
 Phe Arg Asn Ser Ile Gly Asn Ser Gln Arg Met Asn Ser Tyr Gln Leu

210	215	220
Pro Asn Ile Asn Ser Tyr Met Met Pro Ile Pro Pro Pro Leu Pro Pro		
225	230	235
Thr Gly Lys Ile Thr Arg Glu Asn Arg Ser Glu Thr Trp Arg Arg Arg		
245	250	255
Arg Phe Arg Pro Thr Thr Ala Ala Asn Gly Leu Glu Pro Leu Leu Thr		
260	265	270
Lys Asp Ser Arg Arg Ile His Lys Thr Ser Leu His Ser Asn Ala Ala		
275	280	285
Ile Thr Met Ile Tyr Leu Gly Lys Asn Val His Leu Ser Ser Asp Asn		
290	295	300
Pro Asp Phe Arg Asp Glu Ile Lys Val Tyr Gln Gln His Cys Gly Gly		
305	310	315
Glu Asn Leu Cys Val Tyr Lys Gly Lys Leu Leu Glu Lys Glu Thr Phe		
325	330	335
Gln Phe Ile Ser Lys Arg His His Gly Phe Pro Phe Ser Leu Thr Phe		
340	345	350
Phe Leu Asn Gly Met Gln Val Asn Arg Leu Ser Ser Cys Cys Glu Tyr		
355	360	365
Lys His Arg Lys Gly Ser Arg Leu Gly Gly Lys Arg Gly Tyr Phe Gly		
370	375	380
Phe Val Cys Val Glu Arg Ser Ser Pro Cys Tyr Lys Cys Ile Ile Ala		
385	390	395
Met Gly Leu Asp Lys Lys Pro Ser Leu Pro Lys Ser Arg Lys Glu Lys		
405	410	415
Ser Thr Glu Lys Gly Glu Glu Leu Lys Lys Ala Glu Gly Lys Val Arg		
420	425	430
Lys Glu Arg Glu Tyr Val Ile Pro Lys Arg Asn Glu Ile Lys Glu Asn		
435	440	445

Lys Thr Ser Val Ser Ala Lys Phe Ser Ala Gln Glu Ile Lys Thr Gly
 450 455 460
 Leu Lys Glu Val Val Thr Ala Val Glu Glu Met Thr Ser Lys Gly Lys
 465 470 475 480
 Pro Gly Gln Glu Val Leu Glu Asp Asp Gln Glu Asn Thr Leu Lys Tyr
 485 490 495
 Glu Tyr Glu Glu Asp Phe Glu Val Asp Glu Glu Lys Gln Gly Glu Lys
 500 505 510
 Ser Asn Glu Glu Gly Gln Ala Asp Val Gln Met Asn Gly Ile Pro Gln
 515 520 525
 Ser Pro Leu Asp Asp Lys Lys Asp Asn Leu Asp Pro Glu Lys Glu Ser
 530 535 540
 Glu Thr Ser Ser Gln Lys Ala Pro Asp Ala Arg Asp Asn Val Lys Asp
 545 550 555 560
 Glu Asn Asp Gly Cys Ser Glu Ser Glu Leu Glu Glu Asp Lys Gln Asp
 565 570 575
 Met Lys Thr Ala Ser Ser Thr Ser Ser Arg Ser His Pro Tyr Ser Ser
 580 585 590
 Asp Ser Glu Asp Glu Ser Ala Val Gly Asp Arg Glu Ala His Thr Asp
 595 600 605
 Ser Ser Thr Asp Glu Ser Ala Arg Arg Ser Ser Ser Gln Glu Leu Ser
 610 615 620
 Glu Asn Asp Lys Pro Arg Lys Ser His Leu Pro Ile Glu Glu Ser Leu
 625 630 635 640
 Glu Ile Glu Ile Glu Asp Gln Glu Ile Thr Lys Ala Asp Val Glu Thr
 645 650 655
 Lys Pro Met Pro Ile Asp Glu Ser Phe Glu Asn Val Leu Lys Glu Gly
 660 665 670
 Thr Glu Lys Gly Thr Gln Glu Ile Ala Glu Gly Leu Ser Glu Lys Ser

675	680	685
Gly Lys His Val Ser Ala Glu Glu Lys Glu Lys Asp Lys Ser Lys Leu		
690	695	700
Trp Glu Glu Ser Thr Ala Gln Val Lys Asp Lys Lys Ala Gly Leu Pro		
705	710	715
Gly Leu Glu Glu Gly Gly Lys Asp Ser Leu Pro Leu Ala Tyr Val Leu		
725	730	735
Ala Leu Gly Ala Pro Thr Met Asn Phe Met Val Asp Glu Thr Ala Ala		
740	745	750
Ile Asn Ser Asn Lys Glu Ser Gln Gln Leu Val Gln Lys Thr Tyr Thr		
755	760	765
Leu Glu Lys Lys Glu Ala Met Glu Glu Asp Glu Ala Pro Gln His Arg		
770	775	780
Asp Ala Asp Ile Val Gln Gly Lys Gly Glu Ala Ala Leu Trp Gly Glu		
785	790	795
Ala Gly Ala Val His Glu Ala Pro Leu Arg Ala Trp Lys Pro Thr Ala		
805	810	815
Glu Gln Pro Glu Leu Ala Glu Glu Phe Thr Glu Lys Arg Glu Ile Pro		
820	825	830
Pro Gly Ile Glu Arg Gly Ala Glu Gly Ala Ala Glu Ala Glu Gly Val		
835	840	845
Arg Arg Leu Gly Glu Gly Gly Ser Asp Pro Ile Gly Gln Ala Ala Ala		
850	855	860
Lys Asp Ala Val Gly Leu Ser Lys Asp Glu Ala Pro Glu Lys Gln Ala		
865	870	875
Leu Met Leu Thr Val Leu Glu Thr Asp Lys Ala Ala Ser Glu Gly Glu		
885	890	895
Gln Gly Leu Glu Lys Ala Val Leu Ala Asn Glu Ala Ala Ala Leu Asn		
900	905	910

Leu Glu His Leu His Glu Val Ala Ala Leu Arg Glu Ala Ala Thr Ser
915 920 925
Glu Glu Gly Glu Ala Glu Gly Gly Val Ala Val Ser Asp Val Gly Glu
930 935 940
Ser Glu Glu Glu Ala Ser Ile Asp Leu Glu Asp Thr Gly Pro Met Glu
945 950 955 960
Asp Thr Ala Ser Lys Arg Glu Asp Gly Ser Glu Glu Ala Ile Leu Gly
965 970 975
Gly Glu Glu Pro Ala Lys Glu Arg Lys Glu Val Met Arg Thr Glu Thr
980 985 990
Arg Leu Ser Pro Phe Thr Gly Glu Ala Glu Ala Ser Arg Met Gln Val
995 1000 1005
Ser Glu Gly Ser Pro Glu Glu Gly Ser Leu Ala Lys Glu Ala Phe Leu
1010 1015 1020
Cys Lys Glu Asp Val Glu Gly Glu Glu Met Val Thr Glu Ala Glu Ala
1025 1030 1035 1040
Asn Arg Glu Asp Asp Arg Lys Glu Ile Leu Pro Lys Glu Leu Asp Leu
1045 1050 1055
Ala Arg Glu Arg Arg Lys Ala Glu Arg Pro Lys Thr Ser Leu Arg Lys
1060 1065 1070
Thr Asp Ser Glu Arg Glu Glu Val Thr Arg Ala Asn Ala Leu Lys Asp
1075 1080 1085
Glu Asp Ala Phe Lys Glu Glu Gln Lys Leu Lys Ala Gly Glu Gly Glu
1090 1095 1100
Thr Glu Thr Glu Val Arg Ala Glu Glu Glu Thr Lys Ala Pro Pro Asn
1105 1110 1115 1120
Glu Met Gly Ser Asp Ala Glu Asn Glu Ala Pro Val Glu Ala Ser Glu
1125 1130 1135
Leu Ser Asp Asn Pro Gly Leu Leu Gly Glu Asp Ser Leu Lys Glu Thr

1140	1145	1150
Val Val Pro Ile Phe Glu Ala Thr Pro Gly Phe Glu Lys Ser Leu Glu		
1155	1160	1165
Asn Ile Thr Ala Leu Arg Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys		
1170	1175	1180

<210> 2772

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2772

Met Arg Leu Gln Tyr Ala Leu Asp Thr His Leu Asp Gly Gly Pro Leu		
1	5	10
Leu Ala Leu Ala Ala Leu Cys Ser Asp Leu Val Asn Ala Gly Arg Ala		
20	25	30
Pro Cys Gly Arg Ile Arg Leu Leu Gln Pro Leu Val Gln Gln Gly Leu		
35	40	45
Gln Leu Ala His Ile Phe Glu Ala Gln Leu Gln Gly Leu Glu Pro Ala		
50	55	60
Asp Gly Gly Leu Arg Glu His Val Thr Ile Gln Cys Ala Gln Arg Gln		
65	70	75
Pro His Val Gly Leu Arg Glu Ala Gln Leu Asp Ser Ser Leu Phe Glu		
85	90	95
Leu Phe Gly Glu Leu Phe Gln Leu Ile Arg Gly Trp Arg Leu Leu Val		
100	105	110
Gly Val Ile Leu Ala Met Val Leu Ala Gln Phe Ala Val Ile Arg Gly		
115	120	125

Leu Ser Glu His Arg Val Gln Ala Leu Cys Arg Gly Gly Ser Trp Arg
 130 135 140
 Trp Gly Glu Ser Pro Val Phe Gln His Ala Ala His Gly Glu Ala Arg
 145 150 155 160
 Leu Arg Val His Val Glu Gly Leu Ala Ala
 165 170

<210> 2773

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2773

Met His Gln His Gly Tyr Lys Phe Gly Glu Gly Lys Ser His Arg Ile
 1 5 10 15
 Ile Thr His Thr Arg Thr Pro Gly Pro Gly Asn Tyr Met Asn Met Ser
 20 25 30
 Thr His Leu Met Thr Ala Trp Ser Phe Tyr Gln Leu Tyr Val Asn Ser
 35 40 45
 Val Phe Val Gln Leu Glu Val Ile Cys Asn Asn Phe Asp Leu Ser Arg
 50 55 60
 Ile Leu Thr Leu Ala Leu Ile Asn Ile Ser Lys Met Leu Asp Gly Ile
 65 70 75 80
 Gln Thr Thr Leu Val Gly Ile Asn Gln Cys Arg Phe Gln Gly Lys Gln
 85 90 95
 Arg Val Ser Ser Ile Ile Lys Ile Lys Ser Ile Lys Phe Thr
 100 105 110

<210> 2774

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2774

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Met Ser Val Lys Ser Ser Lys Leu Met Phe Leu Cys His Gly Ser Ser
  1             5             10             15
Arg Ser Leu His Ser Gly Ser Leu Thr Ser Cys Asn Thr Gly Val Cys
      20             25             30
Cys Ser Leu Asp Ala Asp Lys Tyr Glu Asn Asp Pro Glu Leu Glu Lys
      35             40             45
Ile Arg Arg Glu Arg Asn Tyr Ser Trp Met Asp Ile Ile Thr Ile Cys
      50             55             60
Lys Asp Lys Leu Pro Asn Tyr Glu Glu Lys Ile Lys Met Phe Tyr Glu
      65             70             75             80
Glu His Leu His Leu Asp Asp Glu Ile Arg Tyr Ile Leu Asp Gly Ser
      85             90             95
Gly Tyr Phe Asp Val Arg Asp Lys Glu Asp Gln Trp Ile Arg Ile Phe
      100            105            110
Met Glu Lys Gly Asp Met Val Thr Leu Pro Ala Gly Ile Tyr His Arg
      115            120            125
Phe Thr Val Asp Glu Lys Asn Tyr Thr Lys Ala Met Arg Leu Phe Val
      130            135            140
Gly Glu Pro Val Trp Thr Ala Tyr Asn Arg Pro Ala Asp His Phe Glu
      145            150            155            160
Ala Arg Gly Gln Tyr Val Lys Phe Leu Ala Gln Thr Ala
      165            170

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<210> 2775

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2775

Met Ile Met Pro Leu His Ser Ser Leu Asp Asn Thr Ala Arg Pro Cys

1 5 10 15

Leu Lys Lys Gln Glu Thr Lys Lys Gly Arg Gly Lys Phe Gln Lys Ser

20 25 30

Arg Ser Tyr Lys Glu His Trp Lys Ser Val His Arg Gly Ser Thr Phe

35 40 45

Phe Phe Glu Met Glu Ser Cys Ser Val Ala Gln Ala Gly Val Gln Leu

50 55 60

Cys Asp Leu Gly Ser Leu Gln Ala Leu Pro Pro Arg Ile Met Pro Phe

65 70 75 80

Ser Cys Leu Ser Leu Pro Ser Gly Trp Asp Tyr Arg His Pro Pro Pro

85 90 95

Arg Leu Ala Asn Phe Phe Phe Cys Ile Phe Cys Arg Asp Gly Val Ser

100 105 110

Pro Cys Trp Pro Gly Trp Ser

115

<210> 2776

<211> 608

<212> PRT

<213> Homo sapiens

<400> 2776

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Met Arg Trp Ser Pro Ala Pro Val Thr Ser Ala Ala Thr Asp Leu Gly
  1             5             10             15
Val Pro Pro Leu Leu Gly Gly Arg Lys Pro Leu Phe His Leu Glu Arg
      20             25             30
Pro Ala Arg Gln Gly Leu Val Pro Pro Leu Ser Thr Pro Pro Pro Lys
      35             40             45
Gln Ala Pro His Ala His Gly Thr Thr Pro Pro Ser Val Leu Ser His
      50             55             60
Pro Pro Pro Ser Leu Ser Pro His Val Leu Leu Ser Pro Cys His Gln
      65             70             75             80
Phe Gln Val Leu His Gly His Thr Cys Ser His Val His Ile His Ala
      85             90             95
Leu Gly Leu Ser Leu Pro His Cys Ser Ser Leu Thr Leu Met Leu Pro
      100            105            110
Val Tyr Ala Leu Pro Pro Leu Gly Met Arg Asp His Pro Pro Ile Pro
      115            120            125
Ile Thr Asp Leu Ala Asp Asn Ile Glu Arg Leu Lys Ala Asn Asp Gly
      130            135            140
Leu Lys Phe Ser Gln Glu Tyr Glu Ser Ile Asp Pro Gly Gln Gln Phe
      145            150            155            160
Thr Trp Glu Asn Ser Asn Leu Glu Val Asn Lys Pro Lys Asn Arg Tyr
      165            170            175
Ala Asn Val Ile Ala Tyr Asp His Ser Arg Val Ile Leu Thr Ser Ile
      180            185            190
Asp Gly Val Pro Gly Ser Asp Tyr Ile Asn Ala Asn Tyr Ile Asp Gly
      195            200            205

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Tyr Arg Lys Gln Asn Ala Tyr Ile Ala Thr Gln Gly Pro Leu Pro Glu
 210 215 220
 Thr Met Gly Asp Phe Trp Arg Met Val Trp Glu Gln Arg Thr Ala Thr
 225 230 235 240
 Val Val Met Met Thr Arg Leu Glu Glu Lys Ser Arg Val Lys Cys Asp
 245 250 255
 Gln Tyr Trp Pro Ala Arg Gly Thr Glu Thr Cys Gly Leu Ile Gln Val
 260 265 270
 Thr Leu Leu Asp Thr Val Glu Leu Ala Thr Tyr Thr Val Arg Thr Phe
 275 280 285
 Ala Leu His Lys Ser Gly Ser Ser Glu Lys Arg Glu Leu Arg Gln Phe
 290 295 300
 Gln Phe Met Ala Trp Pro Asp His Gly Val Pro Glu Tyr Pro Thr Pro
 305 310 315 320
 Ile Leu Ala Phe Leu Arg Arg Val Lys Ala Cys Asn Pro Leu Asp Ala
 325 330 335
 Gly Pro Met Val Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Cys
 340 345 350
 Phe Ile Val Ile Asp Ala Met Leu Glu Arg Met Lys His Glu Lys Thr
 355 360 365
 Val Asp Ile Tyr Gly His Val Thr Cys Met Arg Ser Gln Arg Asn Tyr
 370 375 380
 Met Val Gln Thr Glu Asp Gln Tyr Val Phe Ile His Glu Ala Leu Leu
 385 390 395 400
 Glu Ala Ala Thr Cys Gly His Thr Glu Val Pro Ala Arg Asn Leu Tyr
 405 410 415
 Ala His Ile Gln Lys Leu Gly Gln Val Pro Pro Gly Glu Ser Val Thr
 420 425 430
 Ala Met Glu Leu Glu Phe Lys Leu Leu Ala Ser Ser Lys Ala His Thr

435 440 445
Ser Arg Phe Ile Ser Ala Asn Leu Pro Cys Asn Lys Phe Lys Asn Arg
450 455 460
Leu Val Asn Ile Met Pro Tyr Glu Leu Thr Arg Val Cys Leu Gln Pro
465 470 475 480
Ile Arg Gly Val Glu Gly Ser Asp Tyr Ile Asn Ala Ser Phe Leu Asp
485 490 495
Gly Tyr Arg Gln Gln Lys Ala Tyr Ile Ala Thr Gln Gly Pro Leu Ala
500 505 510
Glu Ser Thr Glu Asp Phe Trp Arg Met Leu Trp Glu His Asn Ser Thr
515 520 525
Ile Ile Val Met Leu Thr Lys Leu Arg Glu Met Gly Arg Val Ser Pro
530 535 540
Pro Phe Pro Pro Gly Pro Leu Ser Tyr Leu Gly Glu His Gln Pro Pro
545 550 555 560
Leu Gly Glu Leu Pro Pro Met Leu Leu Ser Pro Leu Thr Pro Gln Leu
565 570 575
Leu Val Ser Met Ala Ser Gly Ala Arg Tyr Tyr Tyr Leu Arg His Leu
580 585 590
Ser Gln Asn Pro Val Lys Pro Gly Thr Pro Pro Leu Phe Leu Leu Thr
595 600 605

<210> 2777

<211> 582

<212> PRT

<213> Homo sapiens

<400> 2777

Met	Leu	Leu	His	Leu	Cys	Gln	His	Lys	Arg	Ile	His	Ile	Arg	Glu	Asn
1				5					10					15	
Ser	Tyr	Arg	Cys	Glu	Glu	Cys	Gly	Lys	Ala	Phe	Ile	Trp	Phe	Ser	Thr
				20				25					30		
Leu	Thr	Arg	His	Arg	Arg	Val	His	Thr	Gly	Glu	Lys	Ser	Tyr	Lys	Tyr
			35				40					45			
Glu	Cys	Gly	Lys	Ser	Phe	Asn	Gln	Asp	Ser	Asn	Leu	Thr	Thr	His	Lys
	50					55					60				
Arg	Ile	His	Thr	Gly	Gln	Lys	Pro	Tyr	Lys	Cys	Glu	Glu	Cys	Gly	Thr
65					70					75				80	
Ser	Phe	Tyr	Gln	Phe	Ser	Tyr	Leu	Thr	Arg	His	Lys	Leu	Ile	His	Thr
				85					90					95	
Arg	Glu	Lys	Pro	Tyr	Lys	Cys	Glu	Gln	Tyr	Gly	Lys	Thr	Phe	Asn	Gln
		100					105						110		
Ser	Ser	Thr	Leu	Thr	Gly	His	Lys	Ile	Ile	His	Asn	Gly	Glu	Lys	Pro
		115					120					125			
Tyr	Lys	Phe	Glu	Glu	Cys	Gly	Lys	Ala	Phe	Ser	Ile	Phe	Ser	Thr	Pro
	130					135					140				
Thr	Lys	His	Lys	Ile	Ile	His	Thr	Glu	Glu	Lys	Ser	His	Arg	Cys	Glu
145				150						155				160	
Glu	Tyr	Cys	Lys	Ala	Tyr	Lys	Glu	Ser	Ser	His	Leu	Thr	Thr	His	Lys
			165						170				175		
Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Glu	Glu	Cys	Gly	Lys
		180							185				190		
Ala	Phe	Ser	Ile	Phe	Ser	Thr	Leu	Thr	Lys	His	Lys	Ile	Ile	His	Thr
	195						200					205			
Glu	Glu	Lys	Ser	His	Arg	Cys	Glu	Glu	Cys	Gly	Lys	Ala	Tyr	Lys	Glu
	210					215					220				
Ser	Ser	His	Leu	Thr	Thr	His	Lys	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro

225	230	235	240
Tyr Lys Cys Glu Glu Cys Gly Lys Thr Phe Ser Val Phe Ser Ile Leu			
245	250	255	
Thr Lys His Lys Ile Ile His Thr Glu Glu Lys Pro Tyr Lys Cys Glu			
260	265	270	
Glu Cys Gly Lys Ala Phe Lys Arg Ser Ser Thr Leu Thr Lys His Arg			
275	280	285	
Ile Ile His Thr Glu Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys			
290	295	300	
Ala Phe Asn Gln Ser Ser Thr Leu Ser Ile His Lys Ile Ile His Thr			
305	310	315	320
Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Lys Arg			
325	330	335	
Ser Ser Thr Leu Thr Ile His Lys Met Ile His Thr Gly Glu Lys Pro			
340	345	350	
Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Asn Arg Ser Ser His Leu			
355	360	365	
Thr Thr His Lys Arg Ile His Thr Gly His Lys Pro Tyr Lys Cys Lys			
370	375	380	
Glu Cys Gly Lys Ser Phe Ser Val Phe Ser Thr Leu Thr Lys His Lys			
385	390	395	400
Ile Ile His Thr Asp Lys Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys			
405	410	415	
Ala Phe Asn Arg Ser Ser Ile Leu Ser Ile His Lys Lys Ile His Thr			
420	425	430	
Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Lys Arg			
435	440	445	
Ser Ser His Leu Ala Gly His Lys Gln Ile His Ser Val Gln Lys Pro			
450	455	460	

Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Ser Ile Phe Ser Thr Leu
 465 470 475 480
 Thr Lys Tyr Lys Ile Ile His Thr Glu Glu Lys Pro Tyr Lys Cys Glu
 485 490 495
 Lys Cys Gly Lys Thr Phe Tyr Arg Phe Ser Asn Leu Asn Thr His Lys
 500 505 510
 Ile Ile His Thr Gly Glu Lys Pro Cys Lys Cys Glu Glu Cys Gly Lys
 515 520 525
 Ala Phe Asn His Ser Ser Asn Leu Ile Lys His Lys Leu Ile His Thr
 530 535 540
 Gly Asp Lys Pro Tyr Lys Cys Glu Ala Cys Gly Lys Ala Phe Arg Arg
 545 550 555 560
 Ser Ser His Leu Ser Arg His Lys Ile Ile His Ile Gly Ile His Thr
 565 570 575
 Glu Glu Thr Val Gln Lys
 580

<210> 2778

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2778

Met Glu Gly Pro Asp His Gly Lys Ala Leu Phe Ser Thr Pro Ala Ala
 1 5 10 15
 Val Pro Glu Leu Lys Leu Leu Cys Gly Ala Asp Val Leu Lys Thr Phe
 20 25 30
 Gln Thr Pro Asn Leu Trp Lys Asp Ala His Ile Gln Glu Ile Val Glu

35	40	45
Lys Phe Gly Leu Val Cys Val Gly Arg Val Gly His Asp Pro Lys Gly		
50	55	60
Tyr Ile Ala Glu Ser Pro Ile Leu Arg Met His Gln His Asn Ile His		
65	70	75
80		
Leu Ala Lys Glu Pro Val Gln Asn Glu Ile Ser Ala Thr Tyr Ile Arg		
85	90	95
Arg Ala Leu Gly Gln Gly Gln Ser Val Lys Tyr Leu Ile Pro Asp Ala		
100	105	110
Val Ile Thr Tyr Ile Lys Asp His Gly Leu Tyr Thr Lys Gly Ser Thr		
115	120	125
Trp Lys Gly Lys Ser Thr Gln Ser Thr Glu Gly Lys Thr Ser		
130	135	140

<210> 2779

<211> 306

<212> PRT

<213> Homo sapiens

<400> 2779

Met Ala His Met Leu Gln Thr Leu Leu Thr Val Asp Thr Gly Leu Pro		
1	5	10
15		
Leu Ala Gln Val Gln Glu Asp Ser Glu Glu Ala His Ser Ala Ser Ser		
20	25	30
Phe Phe Ala Glu Ile Ser Gln Tyr Thr Ser Gly Ser Ile Gly Cys Asp		
35	40	45
Ile Pro Gly Trp Tyr Leu Trp Val Ser Leu Lys Asn Gly Ile Thr Pro		
50	55	60

Tyr Leu Arg Cys Ala Ala Leu Phe Phe His Tyr Leu Leu Gly Val Thr
 65 70 75 80
 Pro Pro Glu Glu Leu His Thr Asn Ser Ala Glu Gly Glu Tyr Ser Ala
 85 90 95
 Leu Cys Ser Tyr Leu Ser Leu Pro Thr Asn Leu Phe Leu Leu Phe Gln
 100 105 110
 Glu Tyr Trp Asp Thr Val Arg Pro Leu Leu Gln Arg Trp Cys Ala Asp
 115 120 125
 Pro Ala Leu Leu Asn Cys Leu Lys Gln Lys Asn Thr Val Val Arg Tyr
 130 135 140
 Pro Arg Lys Arg Asn Ser Leu Ile Glu Leu Pro Asp Asp Tyr Ser Cys
 145 150 155 160
 Leu Leu Asn Gln Ala Ser His Phe Arg Cys Pro Arg Ser Ala Asp Asp
 165 170 175
 Glu Arg Lys His Pro Val Leu Cys Leu Phe Cys Gly Ala Ile Leu Cys
 180 185 190
 Ser Gln Asn Ile Cys Cys Gln Glu Ile Val Asn Gly Glu Glu Val Gly
 195 200 205
 Ala Cys Ile Phe His Ala Leu His Cys Gly Ala Gly Val Cys Ile Phe
 210 215 220
 Leu Lys Ile Arg Glu Cys Arg Val Val Leu Val Glu Gly Lys Ala Arg
 225 230 235 240
 Gly Cys Ala Tyr Pro Ala Pro Tyr Leu Asp Glu Tyr Gly Glu Thr Asp
 245 250 255
 Pro Gly Leu Lys Arg Gly Asn Pro Leu His Leu Ser Arg Glu Arg Tyr
 260 265 270
 Arg Lys Leu His Leu Val Trp Gln Gln His Cys Ile Ile Glu Glu Ile
 275 280 285
 Ala Arg Ser Gln Glu Thr Asn Gln Met Leu Phe Gly Phe Asn Trp Gln

290 295 300
Leu Leu
305

<210> 2780
<211> 150
<212> PRT
<213> Homo sapiens

<400> 2780
Met His Pro Arg Gly Arg Pro Gln Ala Met Asp Ser Gly Arg Leu Leu
1 5 10 15
Trp Arg Gly Tyr Cys Thr Ala Pro Leu Leu Glu Asp Gly Thr Pro Pro
20 25 30
Ala Ala Ala Thr His Arg Val His Cys Ser Ser Ala Ala Val Gly Pro
35 40 45
Ala Gly Leu Gln Ser Ala Gly Ala Leu Gly Trp Ser Leu Ser Ser Phe
50 55 60
Ala Arg Pro Gly Val Leu Cys Leu Ser Trp Leu Cys Ser Ala Trp Leu
65 70 75 80
Pro Val Tyr Pro Leu Leu Ala Pro Pro His Thr Ser Ser Gly Phe His
85 90 95
Leu Val Gly Glu Glu His Val Pro Leu Thr Val Leu Glu Ser Val Asn
100 105 110
Lys Thr Val Phe Pro Ile Ile Leu Gly Ala Val Ala Gly Leu Val Ser
115 120 125
Ile Gly Thr Leu Arg Trp Arg Gln Gly His His Ile Gln His Ser Gln
130 135 140

Cys Val Arg Arg Ala His

145

150

<210> 2781

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2781

Met Ala Glu Lys Val Asn Asn Phe Pro Pro Leu Pro Lys Phe Ile Pro

1

5

10

15

Leu Lys Pro Cys Phe Tyr Gln Asp Phe Glu Ala Asp Ile Pro Pro Gln

20

25

30

His Val Ser Met Thr Lys Arg Leu Tyr Tyr Leu Trp Met Leu Asn Ser

35

40

45

Val Thr Leu Ala Val Asn Leu Val Gly Cys Leu Ala Trp Leu Ile Gly

50

55

60

Gly Gly Gly Ala Thr Asn Phe Gly Leu Ala Phe Leu Trp Leu Ile Leu

65

70

75

80

Phe Thr Pro Cys Ser Tyr Val Cys Trp Phe Arg Pro Ile Tyr Lys Ala

85

90

95

Phe Lys Thr Asp Ser Ser Phe Ser Phe Met Ala Phe Phe Phe Thr Phe

100

105

110

Met Ala Gln Leu Val Ile Ser Ile Ile Gln Ala Val Gly Ile Pro Gly

115

120

125

Trp Gly Val Cys Gly Trp Ile Ala Thr Ile Ser Phe Phe Gly Thr Asn

130

135

140

Ile Gly Ser Ala Val Val Met Leu Ile Pro Thr Val Met Phe Thr Val

145 150 155 160
Met Ala Val Phe Ser Phe Ile Ala Leu Ser Met Val His Lys Phe Tyr
 165 170 175
Arg Gly Ser Gly Gly Ser Phe Ser Lys Ala Gln Glu Glu Trp Thr Thr
 180 185 190
Gly Ala Trp Lys Asn Pro His Val Gln Gln Ala Ala Gln Asn Ala Ala
 195 200 205
Met Gly Ala Ala Gln Gly Ala Met Asn Gln Pro Gln Thr Gln Tyr Ser
 210 215 220
Ala Thr Pro Asn Tyr Thr Tyr Ser Asn Glu Met
225 230 235

<210> 2782

<211> 1085

<212> PRT

<213> Homo sapiens

<400> 2782

Met Gly Asn Ala Pro Ser His Ser Ser Glu Asp Glu Ala Ala Ala Ala
1 5 10 15
Gly Gly Glu Gly Trp Gly Pro His Gln Asp Trp Ala Ala Ala Ser Gly
 20 25 30
Thr Thr Pro Gly Pro Gly Val Ala Ala Pro Ala Leu Pro Pro Ala Ala
 35 40 45
Ala Leu Leu Glu Pro Ala Arg Leu Arg Glu Ala Ala Ala Ala Leu Leu
 50 55 60
Pro Thr Pro Pro Cys Glu Ser Leu Val Ser Arg His Arg Gly Ala Leu
65 70 75 80

Phe	Arg	Trp	Leu	Glu	Glu	Arg	Leu	Gly	Arg	Gly	Glu	Glu	Ser	Val	Thr
				85					90					95	
Leu	Glu	Gln	Phe	Arg	Glu	Leu	Leu	Glu	Ala	Arg	Gly	Ala	Gly	Cys	Ser
				100					105					110	
Ser	Glu	Gln	Phe	Glu	Glu	Ala	Phe	Ala	Gln	Phe	Asp	Ala	Glu	Gly	Asp
				115					120					125	
Gly	Thr	Val	Asp	Ala	Glu	Asn	Met	Leu	Glu	Ala	Leu	Lys	Asn	Ser	Ser
				130					135					140	
Gly	Ala	Asn	Leu	Gln	Gly	Glu	Leu	Ser	His	Ile	Ile	Arg	Gln	Leu	Gln
				145					150					155	
Ala	Cys	Ser	Leu	Val	Pro	Gly	Phe	Thr	Asp	Ile	Phe	Ser	Glu	Ser	Lys
				165					170					175	
Glu	Gly	Leu	Asp	Ile	His	Ser	Ser	Met	Ile	Leu	Arg	Phe	Leu	His	Arg
				180					185					190	
Asn	Arg	Leu	Ser	Ser	Ala	Val	Met	Pro	Tyr	Pro	Met	Leu	Glu	His	Cys
				195					200					205	
Asn	Asn	Met	Cys	Thr	Met	Arg	Ser	Ser	Val	Leu	Lys	Glu	Ser	Leu	Asp
				210					215					220	
Gln	Leu	Val	Gln	Lys	Glu	Lys	Glu	Ser	Pro	Gly	Asp	Leu	Thr	Arg	Ser
				225					230					235	
Pro	Glu	Met	Asp	Lys	Leu	Lys	Ser	Val	Ala	Lys	Cys	Tyr	Ala	Tyr	Ile
				245					250					255	
Glu	Thr	Ser	Ser	Asn	Ser	Ala	Asp	Ile	Asp	Lys	Met	Thr	Asn	Gly	Glu
				260					265					270	
Thr	Ser	Ser	Tyr	Trp	Gln	Ser	Asp	Gly	Ser	Ala	Cys	Ser	His	Trp	Ile
				275					280					285	
Arg	Leu	Lys	Met	Lys	Pro	Asp	Val	Val	Leu	Arg	His	Leu	Ser	Ile	Ala
				290					295					300	
Val	Ala	Ala	Thr	Asp	Gln	Ser	Tyr	Met	Pro	Gln	Gln	Val	Thr	Val	Ala

305	310	315	320
Val Gly Arg Asn Ala Ser Asp Leu Gln Glu Val Arg Asp Val His Ile			
	325	330	335
Pro Ser Asn Val Thr Gly Tyr Val Thr Leu Leu Glu Asn Ala Asn Val			
	340	345	350
Ser Gln Leu Tyr Val Gln Ile Asn Ile Lys Arg Cys Leu Ser Asp Gly			
	355	360	365
Cys Asp Thr Arg Ile His Gly Leu Arg Ala Val Gly Phe Gln Arg Val			
	370	375	380
Lys Lys Ser Gly Val Ser Val Ser Asp Ala Ser Ala Ile Trp Tyr Trp			
385	390	395	400
Ser Leu Leu Thr Ser Leu Val Thr Ala Ser Met Glu Thr Asn Pro Ala			
	405	410	415
Phe Val Gln Thr Val Leu His Asn Thr Gln Lys Ala Leu Arg His Met			
	420	425	430
Pro Pro Leu Ser Leu Ser Pro Gly Ser Thr Asp Phe Ser Thr Phe Leu			
	435	440	445
Ser Pro Asn Val Leu Glu Glu Val Asp Ser Phe Leu Ile Arg Ile Thr			
	450	455	460
Ser Cys Cys Ser Thr Pro Glu Val Glu Leu Thr Leu Leu Ala Phe Ala			
465	470	475	480
Leu Ala Arg Gly Ser Val Ala Lys Val Met Ser Ser Leu Cys Thr Ile			
	485	490	495
Thr Asp His Leu Asp Thr Gln Tyr Asp Ala Ser Ser Leu Ile Leu Ser			
	500	505	510
Met Ala Ser Val Arg Gln Asn Leu Leu Leu Lys Tyr Gly Lys Pro Leu			
	515	520	525
Gln Leu Thr Leu Gln Ala Cys Asp Val Lys Gly Lys Glu Asp Lys Ser			
	530	535	540

Gly Pro Glu Asn Leu Leu Val Glu Pro Trp Thr Arg Asp Gly Phe Leu
 545 550 555 560
 Thr Glu Thr Gly Lys Thr Arg Ala Ser Thr Ile Phe Ser Thr Gly Thr
 565 570 575
 Glu Ser Ala Phe Gln Val Thr Gln Ile Arg Ile Met Val Arg Arg Gly
 580 585 590
 Gly Ile Gly Ala Gln Cys Gly Leu Val Phe Ala Tyr Asn Ser Ser Ser
 595 600 605
 Asp Lys Phe Cys Ala Glu Glu His Phe Lys Arg Phe Glu Lys Tyr Asp
 610 615 620
 Lys Trp Lys Leu Gln Glu Leu Arg Gln Phe Val Lys Ser Arg Ile Gly
 625 630 635 640
 Cys Ser Ser Asp Asp Leu Gly Glu Asp Asp Pro Ile Gly Trp Phe Glu
 645 650 655
 Leu Glu Glu Glu Trp Asp Glu Ala Asp Val Lys Leu Gln Gln Cys Arg
 660 665 670
 Val Ala Lys Tyr Leu Met Val Lys Phe Leu Cys Thr Arg Gln Glu Ser
 675 680 685
 Ala Glu Arg Leu Gly Val Gln Gly Leu Thr Ile Ser Gly Tyr Leu Arg
 690 695 700
 Pro Ala Arg Ala Glu Ala Glu Gln Ser Val Thr Cys Ala His Cys Arg
 705 710 715 720
 Lys Asp Thr Glu Glu Ser Val Cys Gly Ala Thr Leu Leu Leu Arg Thr
 725 730 735
 Leu Gln Phe Ile Gln Gln Leu Ala His Asp Leu Val Gln Gln Lys Glu
 740 745 750
 Ser Gly Leu Lys Tyr Lys Ser Phe Leu Asp Phe Ala Gly Leu Asp Leu
 755 760 765
 Gln Ile Phe Trp Asn Phe Tyr Ser Lys Leu Lys Gln Asn Pro Arg Glu

770	775	780
Glu Cys Val Ser Ala Gln Thr Leu Leu Leu Gln Leu Leu Gln Ser Cys		
785	790	795
Phe Ser Val Leu Gln Gly Asp Val Leu Ala Ala Ser Glu Glu Glu Lys		
805	810	815
Ala Pro Ile Gln Ser Pro Lys Gly Val Glu Ala Ala Lys Glu Leu Tyr		
820	825	830
Thr His Leu Cys Asp Val Val Asp Lys Val Asp Gly Asp Ser Val Pro		
835	840	845
Met Glu Ile Leu Lys Gln Glu Val Arg Asn Thr Leu Leu Asn Gly Ala		
850	855	860
Ala Ile Phe Phe Pro Asn Arg Gln Thr Arg Arg Asn His Leu Phe Thr		
865	870	875
Met Met Lys Asn Val Thr Glu Gln Glu His Lys Gln Ser Leu Gln Leu		
885	890	895
Thr Phe Arg Ser Leu Cys Thr Tyr Phe Ser Asp Lys Asp Pro Gly Gly		
900	905	910
Leu Leu Leu Leu Pro Glu Lys Asn Asp Leu Ala Lys Met Asn Ile Ser		
915	920	925
Glu Val Leu Ala Val Met Asp Thr Leu Val Ser Val Ala Ala Arg Glu		
930	935	940
Cys Glu Leu Leu Met Leu Ser Gly Ala Pro Gly Glu Val Gly Ser Val		
945	950	955
Leu Phe Ser Leu Phe Trp Ser Val Gln Gly Ser Leu Leu Ser Trp Cys		
965	970	975
Tyr Leu Gln Leu Lys Ser Thr Asp Ser Gly Ala Lys Asp Leu Ala Val		
980	985	990
Asp Leu Ile Glu Lys Tyr Val Gly Gln Phe Leu Ala Ser Met Arg Ala		
995	1000	1005

Ile Leu Glu Ser Leu Phe Ser Gln Tyr Ser Gly Lys Thr Ile Val Glu
 1010 1015 1020
 Arg Leu Cys Asn Ser Val Phe Ser Met Ala Ala Arg Gln Leu Val Ile
 1025 1030 1035 1040
 Phe Leu Leu Asp Phe Cys Thr Leu Asp Ile Pro His Cys Val Leu Leu
 1045 1050 1055
 Arg Glu Phe Ser Val Leu Thr Glu Leu Leu Lys Lys Leu Cys Ser Gly
 1060 1065 1070
 Pro Glu Gly Gly Leu Arg Lys Val Thr Arg Val Ser Thr
 1075 1080 1085

<210> 2783

<211> 725

<212> PRT

<213> Homo sapiens

<400> 2783

Met Asp Ala Ser Ser Asp Pro Tyr Leu Pro Tyr Asp Gly Gly Gly Asp
 1 5 10 15
 Asn Ile Pro Leu Arg Glu Leu His Lys Arg Gly Thr His Tyr Thr Met
 20 25 30
 Thr Asn Gly Gly Ser Ile Asn Ser Ser Thr His Leu Leu Asp Leu Leu
 35 40 45
 Asp Glu Pro Ile Pro Gly Val Gly Thr Tyr Asp Asp Phe His Thr Ile
 50 55 60
 Asp Trp Val Arg Glu Lys Cys Lys Asp Arg Glu Arg His Arg Arg Ile
 65 70 75 80
 Asn Ser Lys Lys Lys Glu Ser Ala Trp Glu Met Thr Lys Ser Leu Tyr

85	90	95
Asp Ala Trp Ser Gly Trp Leu Val Val Thr Leu Thr Gly Leu Ala Ser		
100	105	110
Gly Ala Leu Ala Gly Leu Ile Asp Ile Ala Ala Asp Trp Met Thr Asp		
115	120	125
Leu Lys Glu Gly Ile Cys Leu Ser Ala Leu Trp Tyr Asn His Glu Gln		
130	135	140
Cys Cys Trp Gly Ser Asn Glu Thr Thr Phe Glu Glu Arg Asp Lys Cys		
145	150	155
160		
Pro Gln Trp Lys Thr Trp Ala Glu Leu Ile Ile Gly Gln Ala Glu Gly		
165	170	175
Pro Gly Ser Tyr Ile Met Asn Tyr Ile Met Tyr Ile Phe Trp Ala Leu		
180	185	190
Ser Phe Ala Phe Leu Ala Val Ser Leu Val Lys Val Phe Ala Pro Tyr		
195	200	205
Ala Cys Gly Ser Gly Ile Pro Glu Ile Lys Thr Ile Leu Ser Gly Phe		
210	215	220
Ile Ile Arg Gly Tyr Leu Gly Lys Trp Thr Leu Met Ile Lys Thr Ile		
225	230	235
240		
Thr Leu Val Leu Ala Val Ala Ser Gly Leu Ser Leu Gly Lys Glu Gly		
245	250	255
Pro Leu Val His Val Ala Cys Cys Cys Gly Asn Ile Phe Ser Tyr Leu		
260	265	270
Phe Pro Lys Tyr Ser Thr Asn Glu Ala Lys Lys Arg Glu Val Leu Ser		
275	280	285
Ala Ala Ser Ala Ala Gly Val Ser Val Ala Phe Gly Ala Pro Ile Gly		
290	295	300
Gly Val Leu Phe Ser Leu Glu Glu Val Ser Tyr Tyr Phe Pro Leu Lys		
305	310	315
		320

Thr Leu Trp Arg Ser Phe Phe Ala Ala Leu Val Ala Ala Phe Val Leu
 325 330 335
 Arg Ser Ile Asn Pro Phe Gly Asn Ser Arg Leu Val Leu Phe Tyr Val
 340 345 350
 Glu Tyr His Thr Pro Trp Tyr Leu Phe Glu Leu Phe Pro Phe Ile Leu
 355 360 365
 Leu Gly Val Phe Gly Gly Leu Trp Gly Ala Phe Phe Ile Arg Ala Asn
 370 375 380
 Ile Ala Trp Cys Arg Arg Arg Lys Ser Thr Lys Phe Gly Lys Tyr Pro
 385 390 395 400
 Val Leu Glu Val Ile Ile Val Ala Ala Ile Thr Ala Val Ile Ala Phe
 405 410 415
 Pro Asn Pro Tyr Thr Arg Leu Asn Thr Ser Glu Leu Ile Lys Glu Leu
 420 425 430
 Phe Thr Asp Cys Gly Pro Leu Glu Ser Ser Ser Leu Cys Asp Tyr Arg
 435 440 445
 Asn Asp Met Asn Ala Ser Lys Ile Val Asp Asp Ile Pro Asp Arg Pro
 450 455 460
 Ala Gly Ile Gly Val Tyr Ser Ala Ile Trp Gln Leu Cys Leu Ala Leu
 465 470 475 480
 Ile Phe Lys Ile Ile Met Thr Val Phe Thr Phe Gly Ile Lys Val Pro
 485 490 495
 Ser Gly Leu Phe Ile Pro Ser Met Ala Ile Gly Ala Ile Ala Gly Arg
 500 505 510
 Ile Val Gly Ile Ala Val Glu Gln Leu Ala Tyr Tyr His His Asp Trp
 515 520 525
 Phe Ile Phe Lys Glu Trp Cys Glu Val Gly Ala Asp Cys Ile Thr Pro
 530 535 540
 Gly Leu Tyr Ala Met Val Gly Ala Ala Ala Cys Leu Gly Gly Val Thr

出証特 2 0 0 4 - 3 0 5 9 6 6 1

<400> 2784

Met Ser Ser Glu Ser Glu Gly Asp Asn Asp Pro Ser Pro Phe Pro Val
 1 5 10 15
 Trp Val Ser Glu Gly Val Val Leu Leu Thr Gly Asn Gly Ser Ser Cys
 20 25 30
 Val Gly Met Phe Gly Arg Glu Asn Ala Glu Leu His Ile Gly Gln Ile
 35 40 45
 Glu Trp Ile Val Pro Val Ser Leu Ser Ala Gly Asp Ala Ser Ile Pro
 50 55 60
 Thr Trp Asn Asp Gly Pro Trp Thr Gly Gly Ala Met Glu Ser Trp Val
 65 70 75 80
 Gly Leu Leu Ser Gln Pro Lys Val Gly Trp Val Ser Arg Ala Ser Ser
 85 90 95
 Arg Ala Leu Trp Thr Leu Thr Val Gln Gly Gln Ala Ala Glu Gly Val
 100 105 110
 Gly Gly Asp Gly Gly Gly Gly Met Ala Gly Ala Pro Glu Gly His His
 115 120 125
 Leu Gly Ser Trp Gly Gly His Ile Ser Arg Glu Gly Gly Gly
 130 135 140

<210> 2785

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2785

Met Val Gly Lys Ala Val Glu His Ile Phe Glu Thr Glu Glu Gly Ser

1	5	10	15
Lys Asn Glu Trp Arg Gly Met Val Leu Ala Gln Ala Pro Val Met Asn			
20	25	30	
Thr Trp Phe Tyr Ile Thr Tyr Glu Lys Asp Pro Val Leu Tyr Met Tyr			
35	40	45	
Gln Leu Leu Asp Asp Tyr Lys Asp Gly Asp Leu Arg Ile Leu Gln Asp			
50	55	60	
Ser Asn Asp Ser Pro Leu Ala Glu Arg Glu Pro Gly Glu Val Ile Asp			
65	70	75	80
Ser Leu Val Gly Lys Gln Val Glu Tyr Ala Lys Asp Asp Gly Ser Lys			
85	90	95	
Arg Thr Gly Met Val Ile His Gln Val Glu Ala Lys Pro Ser Val Tyr			
100	105	110	
Phe Ile Lys Phe Asp Asp Asp Phe His Ile Tyr Val Tyr Asp Leu Val			
115	120	125	
Lys Thr Ser			
130			

<210> 2786

<211> 137

<212> PRT

<213> Homo sapiens

<400> 2786

Met Glu Lys Gly Ser Val Ile Ser Leu Pro Ser Pro Ser Tyr Gly Ile			
1	5	10	15
Ser Arg Gly Glu Leu Arg Arg Asn Ser Ser Asn His Cys Phe Leu Ser			
20	25	30	

Leu Trp Pro Gly Ser Arg Glu Pro Lys Leu Lys Val Ala Gly Ser Ser
 35 40 45
 Ser Gln Ser Gln Leu Pro Arg Ala Ile Glu Asp Pro Ala Arg Ile Leu
 50 55 60
 Gly Ile Gln Thr Thr Lys Thr Ala Ala Val Ala Lys Ala Leu Thr Pro
 65 70 75 80
 Val Ala Ser Phe Tyr Ala Gly Lys Ala Ala Leu Arg Trp Thr Met Ala
 85 90 95
 Arg Arg Gly Leu Trp Pro Asn Ala Ala Leu Leu Ser Ser Leu Ala Pro
 100 105 110
 Cys Ser Ser Leu Thr Gly Ala Asn Pro Trp Tyr His Thr Thr Gln Pro
 115 120 125
 Arg Pro Gly Ile Ser Ser Ser Tyr Cys
 130 135

<210> 2787

<211> 581

<212> PRT

<213> Homo sapiens

<400> 2787

Met Phe Asp Phe Thr Cys Met Tyr Ala Ser Glu Asn Ala Ala Leu Val
 1 5 10 15
 Arg Glu Gln Asn Gly His Gln Leu Leu Val Ala Leu Val Gly Asp Ser
 20 25 30
 Leu Leu Glu Pro Phe Trp Pro Met Gly Thr Gly Ile Ala Arg Gly Phe
 35 40 45
 Leu Ala Ala Met Asp Ser Ala Trp Met Val Arg Ser Trp Ser Leu Gly

50	55	60
Thr Ser Pro Leu Glu Val	Leu Ala Glu Arg Gly Ser Ile Tyr Arg Leu	
65	70	75
Leu Pro Gln Thr Thr Pro Glu Asn Val	Ser Lys Asn Phe Ser Gln Tyr	80
85	90	95
Ser Ile Asp Pro Val Thr Arg Tyr Pro Asn Ile Asn Val Asn Phe Leu		
100	105	110
Arg Pro Ser Gln Val Arg His Leu Tyr Asp Thr Gly Glu Thr Lys Asp		
115	120	125
Ile His Leu Glu Met Glu Ser Leu Val Asn Ser Arg Thr Thr Pro Lys		
130	135	140
Leu Thr Arg Asn Glu Ser Val Ala Arg Ser Ser Lys Leu Leu Gly Trp		
145	150	155
Cys Gln Arg Gln Thr Asp Gly Tyr Ala Gly Val Asn Val Thr Asp Leu		
165	170	175
Thr Met Ser Trp Lys Ser Gly Leu Ala Leu Cys Ala Ile Ile His Arg		
180	185	190
Tyr Arg Pro Asp Leu Ile Asp Phe Asp Ser Leu Asp Glu Gln Asn Val		
195	200	205
Glu Lys Asn Asn Gln Leu Ala Phe Asp Ile Ala Glu Lys Glu Leu Gly		
210	215	220
Ile Ser Pro Ile Met Thr Gly Lys Glu Met Ala Ser Val Gly Glu Pro		
225	230	235
Asp Lys Leu Ser Met Val Met Tyr Leu Thr Gln Phe Tyr Glu Met Phe		
245	250	255
Lys Asp Ser Leu Pro Ser Ser Asp Thr Leu Asp Leu Asn Ala Glu Glu		
260	265	270
Lys Ala Val Leu Ile Ala Ser Thr Arg Ser Pro Ile Ser Phe Leu Ser		
275	280	285

Lys Leu Gly Gln Thr Ile Ser Arg Lys Arg Ser Pro Lys Asp Lys Lys
290 295 300

Glu Lys Asp Leu Asp Gly Ala Gly Lys Arg Arg Lys Thr Ser Gln Ser
305 310 315 320

Glu Glu Glu Glu Ala Pro Arg Gly His Arg Gly Glu Arg Pro Thr Leu
325 330 335

Val Ser Thr Leu Thr Asp Arg Arg Met Asp Val Ala Val Gly Asn Gln
340 345 350

Asn Lys Val Lys Tyr Met Ala Thr Gln Leu Leu Ala Lys Phe Glu Glu
355 360 365

Asn Ala Pro Ala Gln Ser Ile Gly Ile Arg Arg Gln Gly Ser Met Lys
370 375 380

Lys Glu Phe Pro Gln Asn Leu Gly Gly Ser Asp Thr Cys Tyr Phe Cys
385 390 395 400

Gln Lys Arg Val Tyr Val Met Glu Arg Leu Ser Ala Glu Gly Lys Phe
405 410 415

Phe His Arg Ser Cys Phe Lys Cys Glu Tyr Cys Ala Thr Thr Leu Arg
420 425 430

Leu Ser Ala Tyr Ala Tyr Asp Ile Glu Asp Gly Lys Phe Tyr Cys Lys
435 440 445

Pro His Tyr Cys Tyr Arg Leu Ser Gly Tyr Ala Gln Arg Lys Arg Pro
450 455 460

Ala Val Ala Pro Leu Ser Gly Lys Glu Ala Lys Gly Pro Leu Gln Asp
465 470 475 480

Gly Ala Thr Thr Asp Ala Asn Gly Arg Ala Asn Ala Val Ala Ser Ser
485 490 495

Thr Glu Arg Thr Pro Gly Ser Gly Val Asn Gly Leu Glu Glu Pro Ser
500 505 510

Ile Ala Lys Arg Leu Arg Gly Thr Pro Glu Arg Ile Glu Leu Glu Asn

515 520 525
 Tyr Arg Leu Ser Leu Arg Gln Ala Glu Ala Leu Gln Glu Val Pro Glu
 530 535 540
 Glu Thr Gln Ala Glu His Asn Leu Ser Ser Val Leu Asp Thr Gly Ala
 545 550 555 560
 Glu Glu Asp Val Ala Ser Arg Ser Ala Arg Arg Ala Ala Gly His Pro
 565 570 575
 Pro Ala Thr Arg Pro
 580

<210> 2788

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2788

Met Ser Met Ile Ala Gln Phe Ser Ile Cys Lys Met Lys Ile Lys Val
 1 5 10 15
 Pro Ala Lys Ala Phe Arg Arg Asn Arg Thr Arg His Ser Gln Gln Gly
 20 25 30
 Lys Lys Ser Gln Ile Val Gly Arg Asn Leu Cys Ser Glu Ile Lys Pro
 35 40 45
 Pro Gly Leu His Pro Ala Leu Pro Leu Arg Cys Ser Phe Ile Tyr Leu
 50 55 60
 Pro Tyr Pro Ser His His Arg Lys Thr Gln Glu Thr Arg Val Glu Met
 65 70 75 80
 Pro Gly Thr Lys Ala Ala Ala Ala Ile Ile Gln Thr Leu His Thr Asp
 85 90 95

Gln Ser Leu Ala Pro Val Thr Gly Pro Arg Gln Gly Gly Ala Ser Arg

100

105

110

Gln Gly Gly Glu Trp Asn Leu Pro Asn Asn Gly Cys Gln

115

120

125

<210> 2789

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2789

Met Arg Lys Leu Ser Gly His Arg Val Leu Phe Leu Ala Glu Asn Trp

1

5

10

15

Gln His Arg Gly Val Gly Ala Gln Val Ser Ala Phe Pro Gly Phe Gln

20

25

30

Pro Gly Ser Glu Ser Tyr Met Ser Leu Ala Gly His Leu Leu Cys Ala

35

40

45

Arg Pro Tyr Leu Gly Pro Leu Ala Thr Ala Pro Cys Ser Ile Ile Arg

50

55

60

Glu Ala Ala Ala Gly Pro Asn Trp His Ser Gln Gly Leu Asp Gly Ser

65

70

75

80

Arg Val Gly Gly Val Ser Pro Ala Pro Leu Leu Pro Cys Gly Cys Asp

85

90

95

Gln Ser Glu Ala Pro Pro Val Ser Gly Asp Trp Gly Trp Gly Ala Cys

100

105

110

Gly Arg Asp Phe Cys Ile Leu Phe Ser Pro

115

120

<210> 2790

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2790

Met Asn Trp Ser Gly Met Lys Cys Gln Phe Lys Leu Leu Arg Met Ala

1

5

10

15

Val Ala Leu Ile Cys Met Ser Met Glu Phe Gly Arg Ala Val Trp Leu

20

25

30

Arg Phe His Pro Ser Ala Tyr Pro Pro Cys Pro His Pro Ser Phe Val

35

40

45

Ala His Leu Gly Gly Val Ala Val Gly Val Thr Leu Gly Val Val Val

50

55

60

Leu Arg Asn Tyr Glu Gln Arg Leu Gln Asp Gln Ser Leu Trp Trp Ile

65

70

75

80

Phe Val Ala Met Tyr Thr Val Phe Val Leu Phe Ala Val Phe Trp Asn

85

90

95

Ile Phe Ala Tyr Thr Leu Leu Asp Leu Lys Leu Pro Pro Pro Pro

100

105

110

<210> 2791

<211> 459

<212> PRT

<213> Homo sapiens

<400> 2791

Met Ile Gly Thr Ala Phe Ser Leu Ala Ile Val Ser Tyr Val Ile Asn
 1 5 10 15
 Leu Ala Met Gly Arg Thr Leu Ala Asn Lys His Gly Tyr Asp Val Asp
 20 25 30
 Ser Asn Gln Glu Met Ile Ala Leu Gly Cys Ser Asn Phe Phe Gly Ser
 35 40 45
 Phe Phe Lys Ile His Val Ile Cys Cys Ala Leu Ser Val Thr Leu Ala
 50 55 60
 Val Asp Gly Ala Gly Gly Lys Ser Gln Val Ala Ser Leu Cys Val Ser
 65 70 75 80
 Leu Val Val Met Ile Thr Met Leu Val Leu Gly Ile Tyr Leu Tyr Pro
 85 90 95
 Leu Pro Lys Ser Val Leu Gly Ala Leu Ile Ala Val Asn Leu Lys Asn
 100 105 110
 Ser Leu Lys Gln Leu Thr Asp Pro Tyr Tyr Leu Trp Arg Lys Ser Lys
 115 120 125
 Leu Gly Cys Cys Ile Trp Val Val Ser Phe Leu Ser Ser Phe Phe Leu
 130 135 140
 Ser Leu Pro Tyr Gly Val Ala Val Gly Val Ala Phe Ser Val Leu Val
 145 150 155 160
 Val Val Phe Gln Thr Gln Phe Arg Asn Gly Tyr Ala Leu Ala Gln Val
 165 170 175
 Met Asp Thr Asp Ile Tyr Val Asn Pro Lys Thr Tyr Asn Arg Ala Gln
 180 185 190
 Asp Ile Gln Gly Ile Lys Ile Ile Thr Tyr Cys Ser Pro Leu Tyr Phe
 195 200 205
 Ala Asn Ser Glu Ile Phe Arg Gln Lys Val Ile Ala Lys Thr Gly Met
 210 215 220
 Asp Pro Gln Lys Val Leu Leu Ala Lys Gln Lys Tyr Leu Lys Lys Gln

225	230	235	240
Glu Lys Arg Arg Met Arg Pro Thr Gln Gln Arg Arg Ser Leu Phe Met			
	245	250	255
Lys Thr Lys Thr Val Ser Leu Gln Glu Leu Gln Gln Asp Phe Glu Asn			
	260	265	270
Ala Pro Pro Thr Asp Pro Asn Asn Asn Gln Thr Pro Ala Asn Gly Thr			
	275	280	285
Ser Val Ser Tyr Ile Thr Phe Ser Pro Asp Ser Ser Ser Pro Ala Gln			
	290	295	300
Ser Glu Pro Pro Ala Ser Ala Glu Ala Pro Gly Glu Pro Ser Asp Met			
305	310	315	320
Leu Ala Ser Val Pro Pro Phe Val Thr Phe His Thr Leu Ile Leu Asp			
	325	330	335
Met Ser Gly Val Ser Phe Val Asp Leu Met Gly Ile Lys Ala Leu Ala			
	340	345	350
Lys Leu Ser Ser Thr Tyr Gly Lys Ile Gly Val Lys Val Phe Leu Val			
	355	360	365
Asn Ile His Ala Gln Val Tyr Asn Asp Ile Ser His Gly Gly Val Phe			
	370	375	380
Glu Asp Gly Ser Leu Glu Cys Lys His Val Phe Pro Ser Ile His Asp			
385	390	395	400
Ala Val Leu Phe Ala Gln Ala Asn Ala Arg Asp Val Thr Pro Gly His			
	405	410	415
Asn Phe Gln Gly Ala Pro Gly Asp Ala Glu Leu Ser Leu Tyr Asp Ser			
	420	425	430
Glu Glu Asp Ile Arg Ser Tyr Trp Asp Leu Glu Gln Glu Met Phe Gly			
	435	440	445
Ser Met Phe His Ala Glu Thr Leu Thr Ala Leu			
450	455		